ORDER NO. VRD9002M107

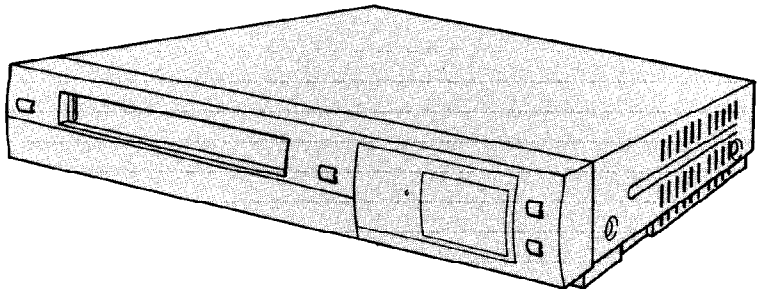
Service Manual

Video Cassette Recorder

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List

Panasonic VHS HQ
PAL

NV-J30EE



MC-Service

SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	SOURCE: 220V 50/60Hz	AUDIO	HEAD: 1 Stationary head (Normal Audio)
	CONSUMPTION: 22W		INPUT: AUDIO IN Connector (Phono type) More than 10dBV (316mV), more than 50kΩ
RECORDING SYSTEM	2 rotary heads, helical scanning system		OUTPUT: AUDIO OUT Connector (Phono type) −6dBV (500mV), Less than 1kΩ
	PAL	TAPE FORMAT	VHS Cassette tape (Tape width 12.7mm)
TV TUNER SYSTEM	VHF I : CH1~CH5 (SECAM OIRT) CH2~CH4, CHS1~CHS3 (PAL/SECAM B·G) VHF III: CH6~CH12 (SECAM OIRT) CHM1~CHM10, CH5~CH6, CHU1~CHU10 (PAL/SECAM B·G) UHF: CH21~CH69 (SECAM OIRT, PAL/SECAM B·G) 75Ω unbalanced	TAPE SPEED	23.39mm/s Record/Playback Time: 4 hours with 240min. type tape FF/REW Time: 5.5min. with 180min. type tape
		DIMENSIONS	380(W)×82(H)×345.5(D)mm
RF OUT SYSTEM	UHF: CH36±4 (SECAM OIRT, PAL/SECAM B·G) 73±3dBμ, 75Ω terminated	WEIGHT	4.8kg
VIDEO	HEADS: 3 rotary heads 1 pair for recording, playback (L-R heads) 1 pc. for trick play (L′ head)	STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red remote controller (Build in Digital Scanner type) 1 pc. Programme sheet 1 pc. AC Mains Lead
	INPUT: VIDEO IN Connector (Phono type) 1.0Vp-p, 75Ω terminated		
	OUTPUT: VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω terminated		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
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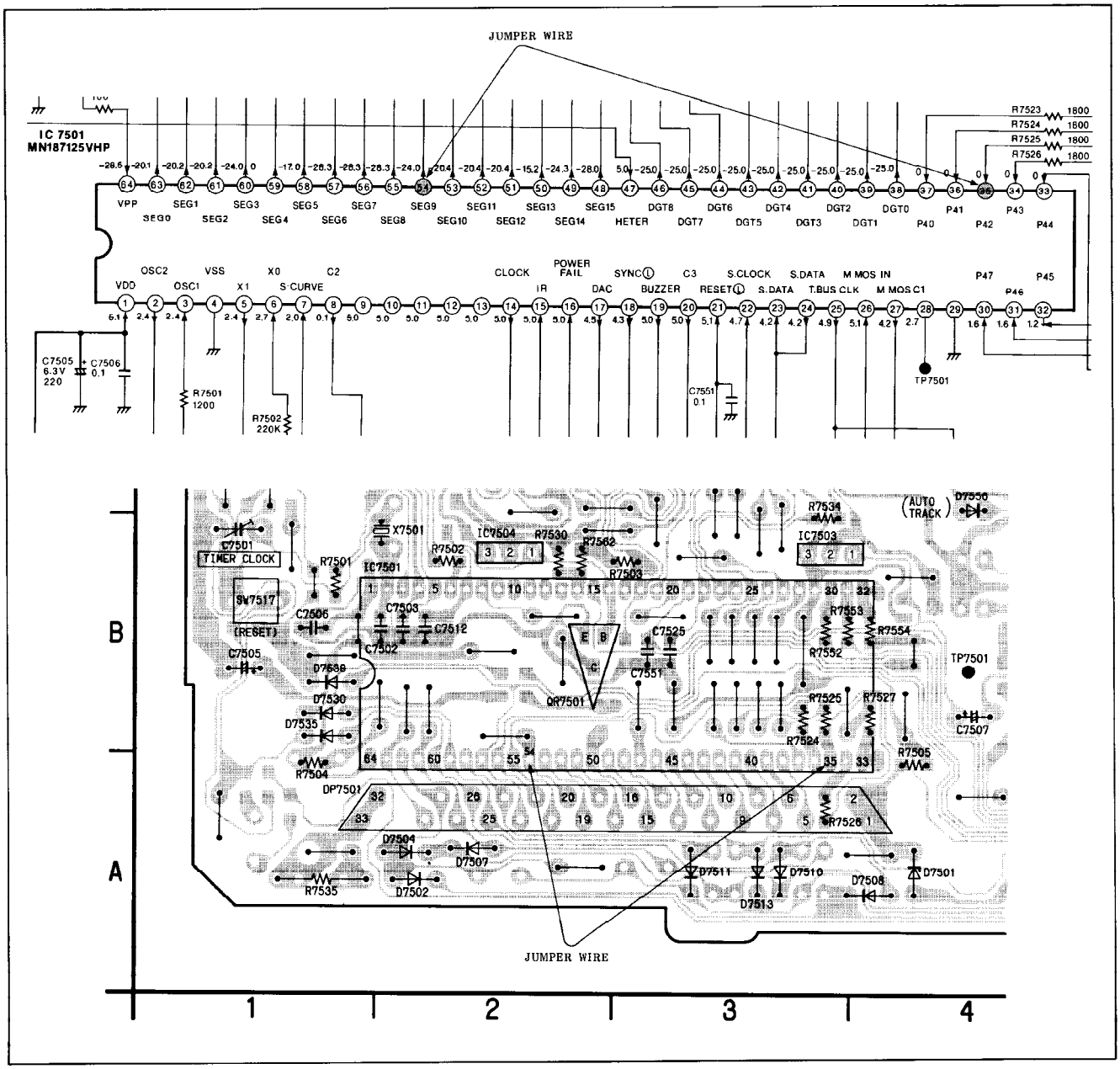
Technical Information

Please pay attention when you replace the memory IC IC7502 (MN12C261D) on Timer C.B.A.
Since the any data for new memory IC has been initialized at factory,the buzzer"on"data should be always set on the memory IC when your repairing.
The following steps must be performed after installing the new memory IC to Timer C.B.A.

Method (Contacting jumper wire on Timer C.B.A.)

1. Contact the lead wires between pin 54 and pin 35 on the Timer IC7501 twice by using jumper wire as shown below.
2. Confirm that "Beep-Beep" sound from the VTR warm you when setting any programmes.



SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flowchart indicates disassembly steps of the cabinet parts and circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

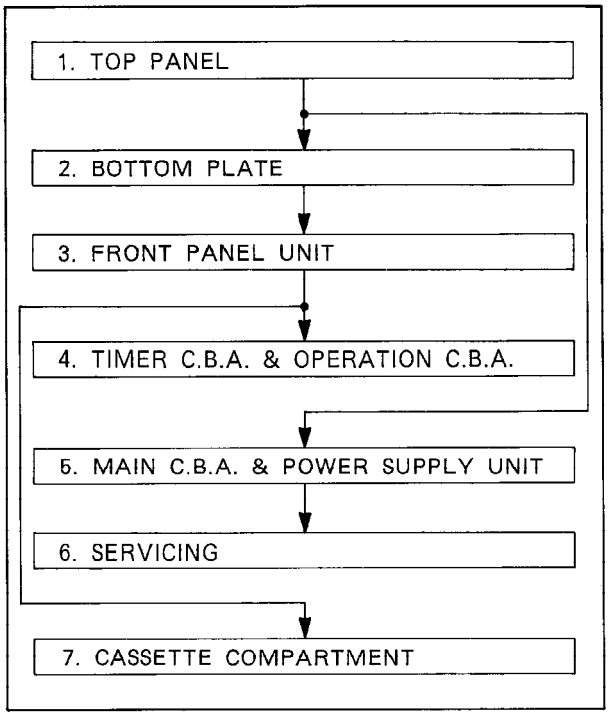

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A. & OPERATION C.B.A.
5. MAIN C.B.A. & POWER SUPPLY UNIT
6. SERVICING
7. CASSETTE COMPARTMENT

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL UNIT

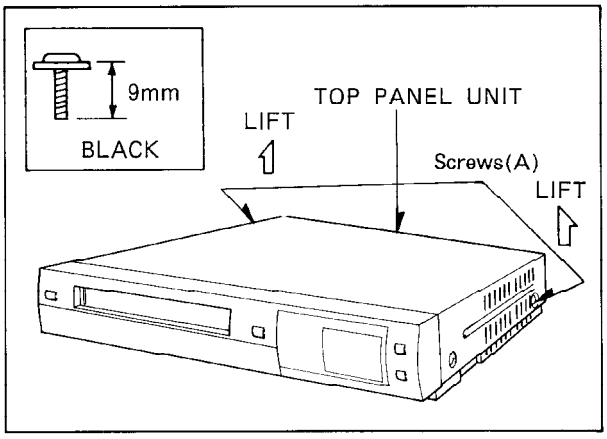


Fig. D2

Remove ... 2 Screws (A)

2. REMOVAL OF THE BOTTOM PLATE

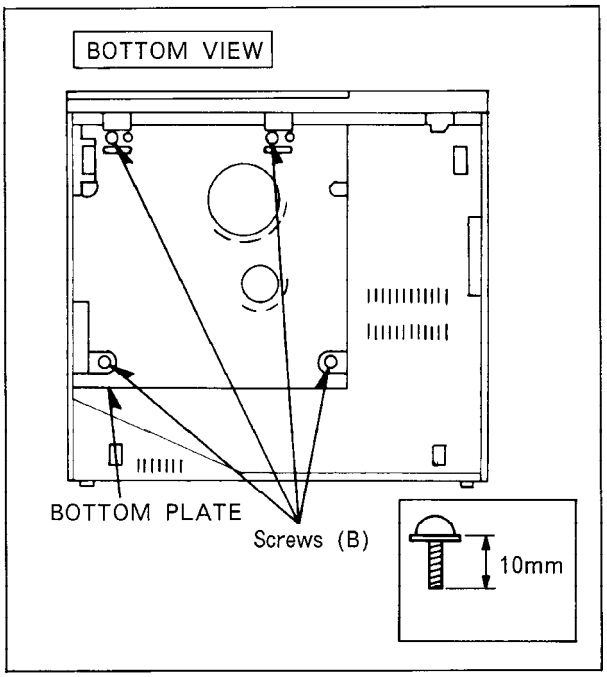


Fig. D3

Remove ... 4 Screws (B)

3. REMOVAL OF THE FRONT PANEL UNIT

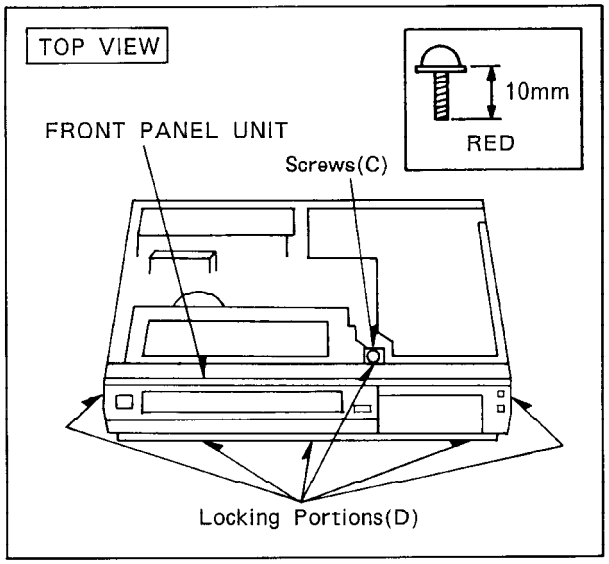


Fig. D4

Remove ... Screw(C)
Unlock ... 6 Locking Portions(D)

4. REMOVAL OF THE TIMER C.B.A. AND OPERATION C.B.A.

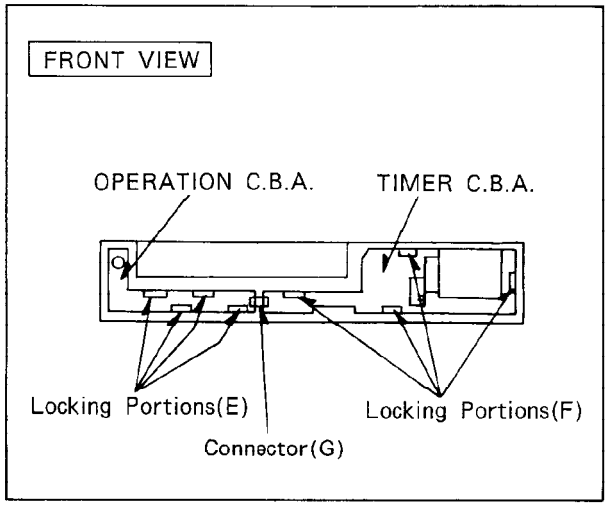


Fig. D5

REMOVAL OF THE OPERATION C.B.A.

Unlock ... 4 Locking Portions(E)
Disconnect ... Connector(G)

REMOVAL OF THE TIMER C.B.A.

Unlock ... 3 Locking Portions(F)

Note: HOW TO REMOVE THE CONNECTOR (G).

When removing the connector(G), carefully lift the top portions(H) of connector to remove.

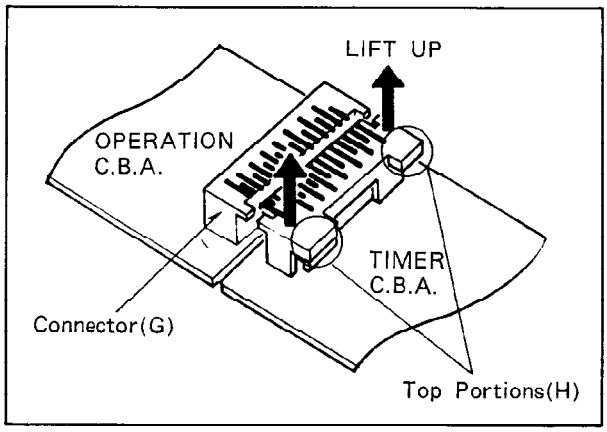


Fig. D6

NOTE:

If the connector is turned for checking the operatrion C.B.A. and Timer C.B.A., the short circuit could be made between reed wires.
Be sure there is no short circuit between reed wires and check the both Operation & Timer C.B.As.

5. REMOVAL OF THE MAIN C.B.A. AND POWER SUPPLY UNIT

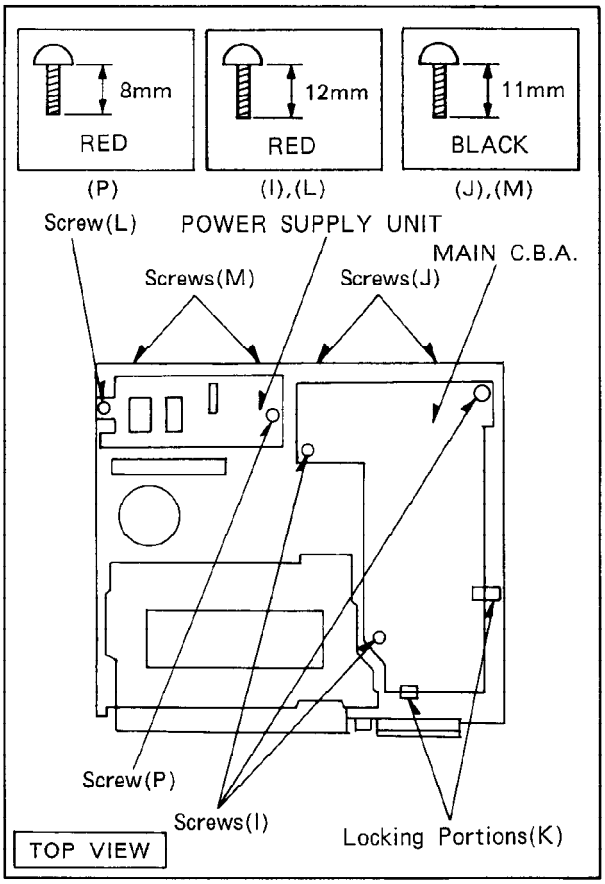


Fig. D7

REMOVAL OF THE MAIN C.B.A.

Remove ... 3 Screws(I),2 Screws(J) and Screw(P)
Unlock ... 2 Locking Portions(K)

REMOVAL OF THE POWER SUPPLY UNIT

Remove ... Screw(L) and 2 Screws(M)

6. SEVICING

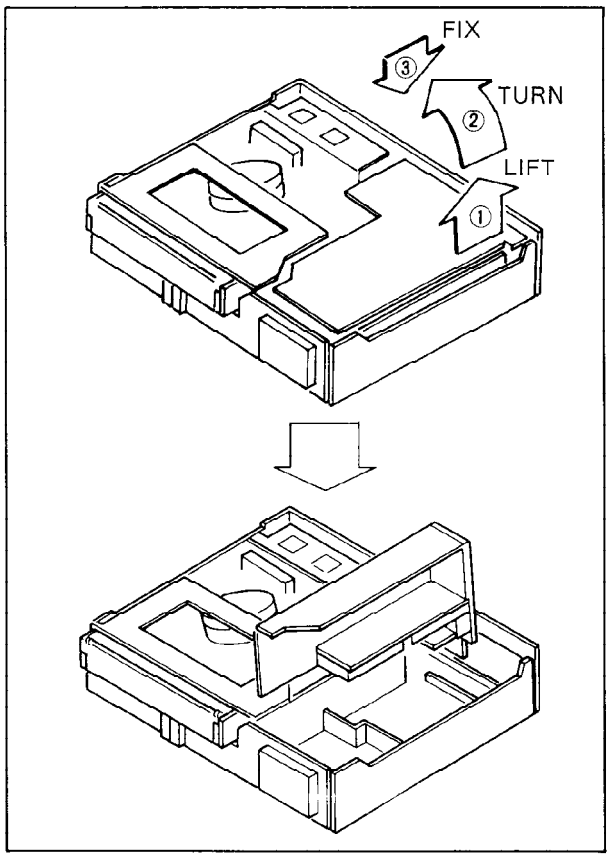


Fig. D8

7. REMOVAL OF THE CASSETTE COMPARTMENT

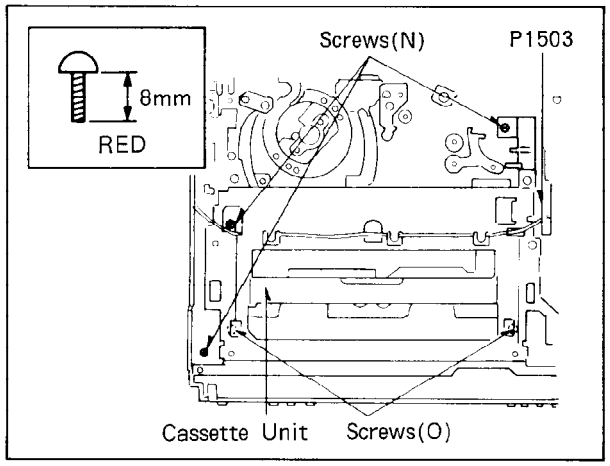


Fig. D9

Remove the 3 screws(N).
Slide the cassette holder until appearing 2 screws(O) by turning (clockwise) the Capstan Rotor Unit (located in the bottom side as shown in Fig. D10) and remove the 2 screws(O).
Remove the wire cable from connector P1503 mounted on Take-up Photo Tr. C.B.A., then carefully pull out the Cassette Compartment.

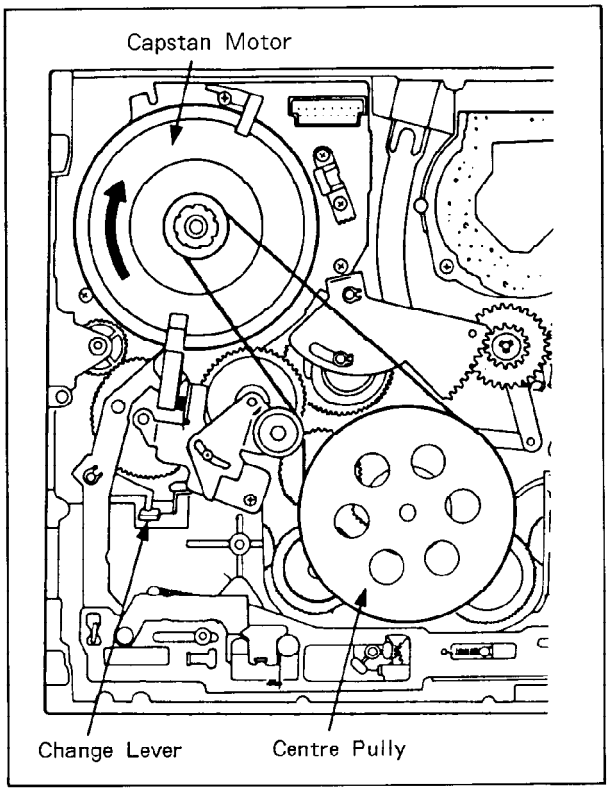


Fig. D10

NOTE:

When restalling the Cassette Compartment, mechanical adjustment (alignment) must be performed for correct working refer to Service Manual (G Mechanical Chassis) (Order No. VRD8701105, item 3-10. mechanical adjustment (alignment).

2-1-3.How to open the Remote Control Unit

1.Removal of the sensor cap.

Turn the sensor cap counterclockwise(90 degrees) and pull the sensor cap to remove as shown in Fig D11.

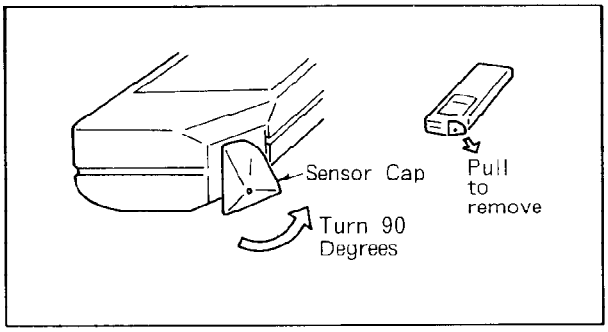


Fig.D11

2.Removal of the Battery Cover

Press the part of battery cover indicated by the arrow and lift off the cover.
Then take out batteries.

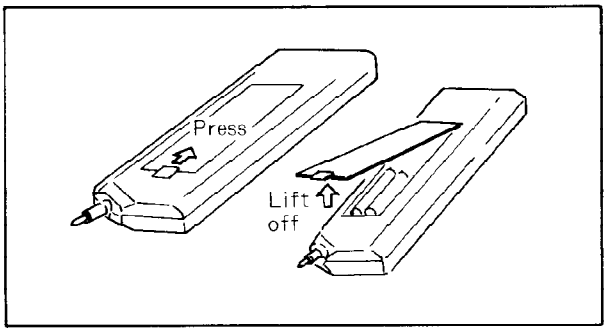


Fig.D12

3.Removal of the bottom case.

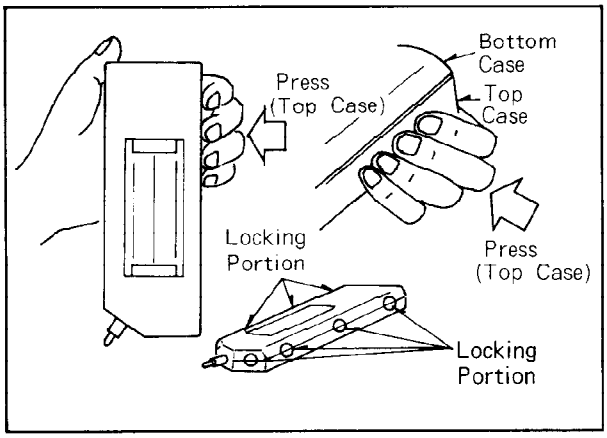


Fig.D13

Press the side of Top case with left hand as shown in Fig.D13 by big force so that the top case is bending.
Then insert your finger of right hand to gap between top case and bottom case while keep pressing by your left hand as shown in Fig.D14.

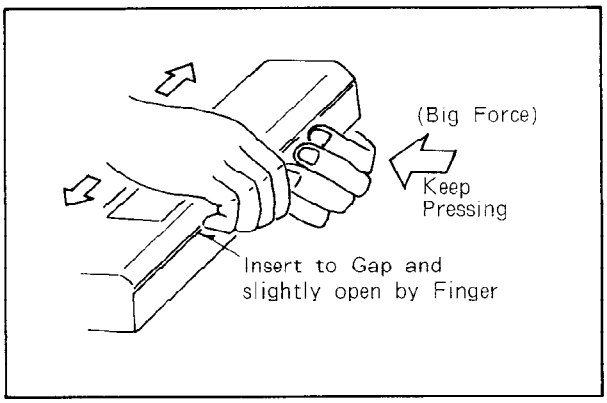


Fig.D14

First slightly open the bottom case by your inserted right hand and move your right hand to extend the open portion.
When unlock the 3 locking portion(refer to Fig.D13),the bottom case is removed easily.
If you can not open,please try opposite side with same way.

4.Removal of the sensor C.B.A.

Remove 2 screws as shown in Fig.D15.

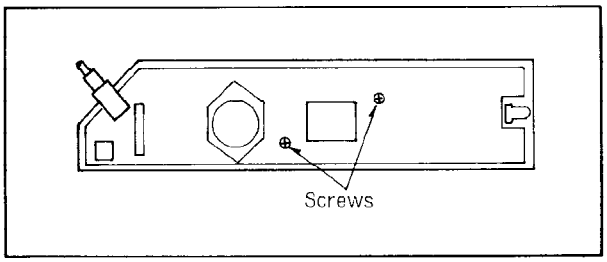
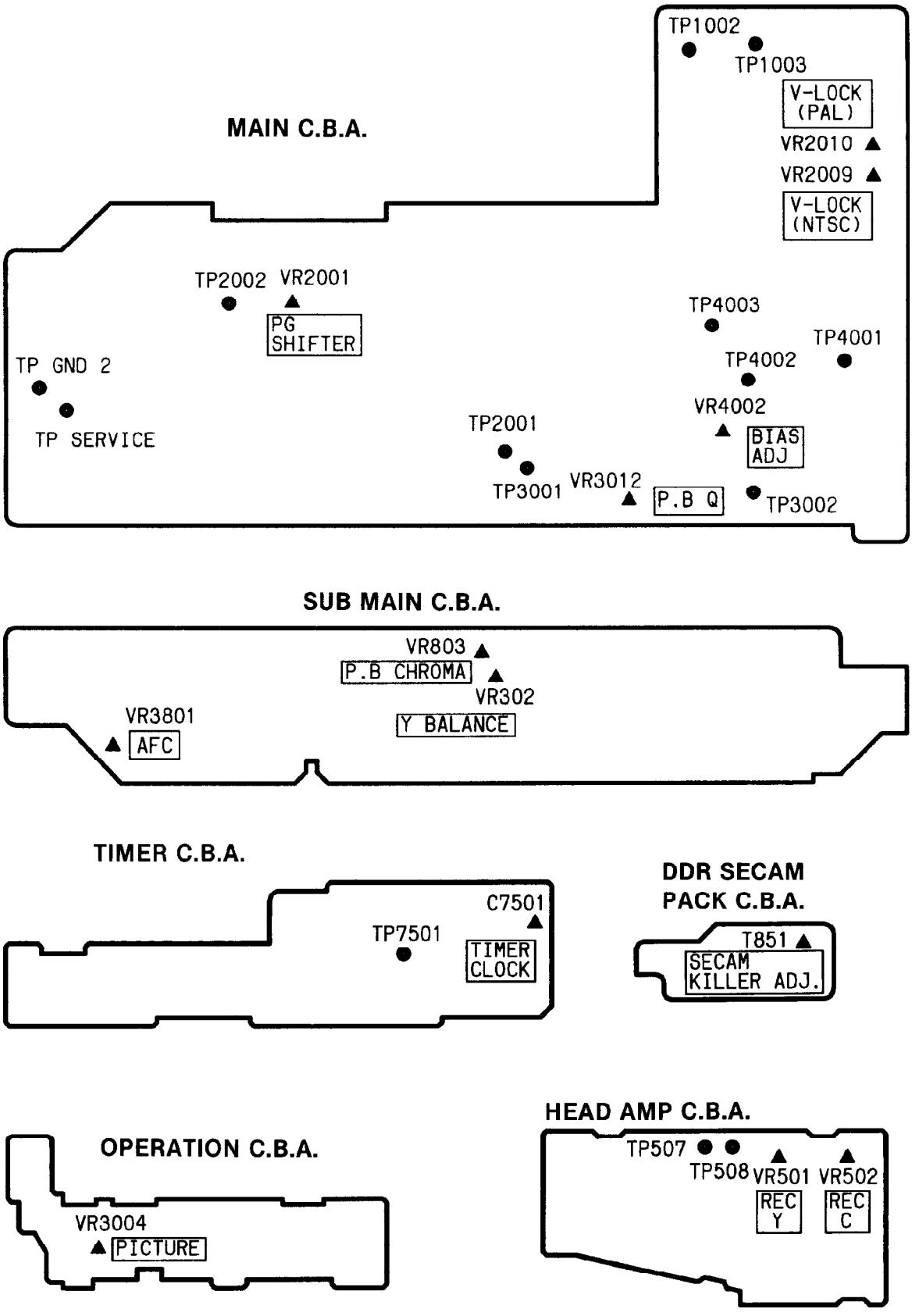


Fig.D15

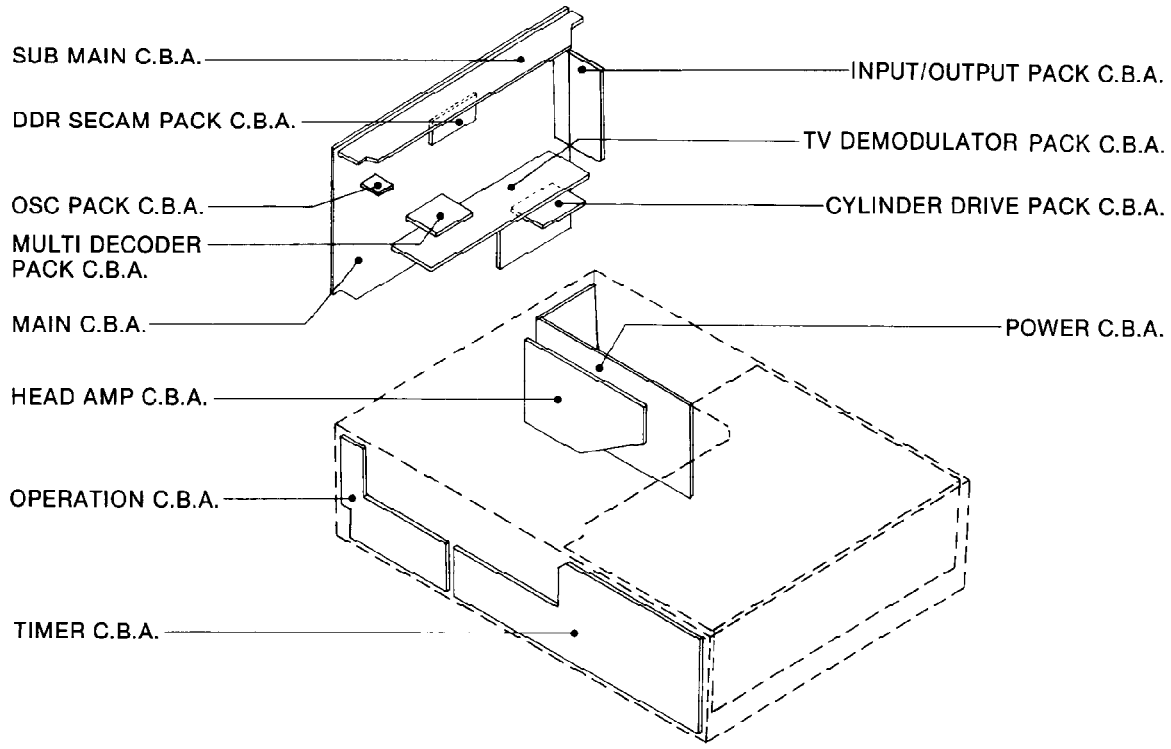
2-2. MECHANICAL ADJUSTMENT PROCEDURES

This mechanical chassis of these model NV-J30EE is the same as G-REV. Mechanical Chassis.
Therefore please refer to the Service Manual G-REV. Mechanical Chassis (Order No. VRD8901M101).

LOCATION OF TEST POINTS & CONTROLS



CIRCUIT BOARD LAYOUT



2-3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorder NV-J30EE.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001~50V
2. Dual-Trace Oscilloscope
   Voltage Range: 0.005~50V/div.
   Frequency Range: DC~30MHz
   Probes: 10:1 or 1:1
3. Universal Counter
4. Signal Generator (Sinewave)
   Frequency Range: 0~500KHz
5. Video Sweep Generator
   Frequency Range: 0~10MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)

2-3-2. HOW TO READ THE ADJUSTMENT PROCEDURES

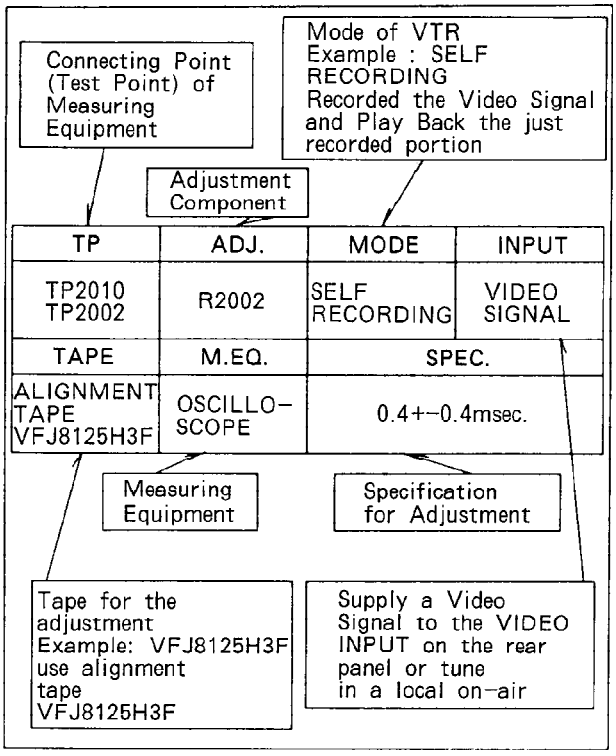


Fig. E1

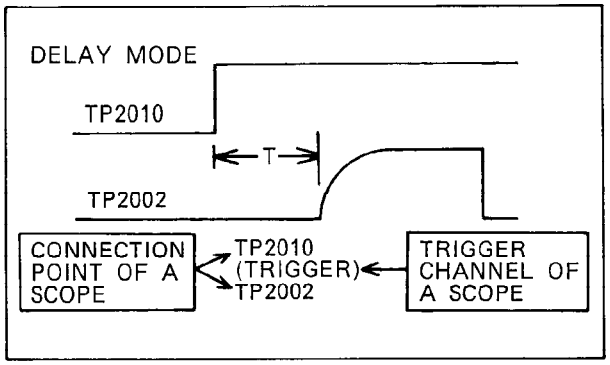


Fig. E2

NOTE:

Before the electrical adjustment, set the VHS VTR as following conditions except for especial instructions in each adjustment item.

1) Picture Sharpness Control...Centre Fix Position
2) Test Signal Switch...OFF Position
3) Noise Filter/Edit Switch...OFF Position
4) Digital Tracking On/Off Switch...ON Position
5) TV System Selector...AUTO Position
6) RF Selector Switch...PAL/SECAM B.G Position

SERVO SECTION

2-3-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 I/O PACK-13 (VIDEO OUT)	VR2001	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	6.5+-0.5H	

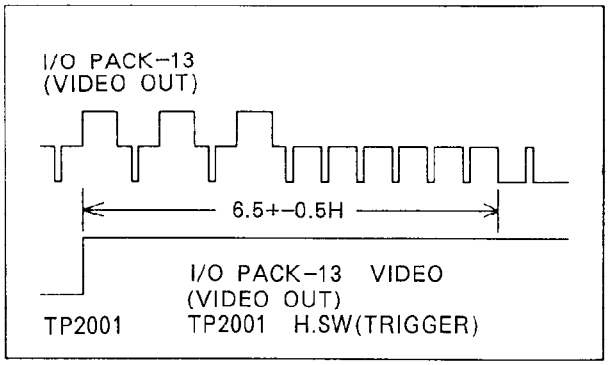


Fig. E3

2-3-4. ARTIFICIAL V-SYNC FOR PAL ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR2010	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR		

1. Playback the just recorded portion and place the deck in STILL mode.
2. Adjust the VR2010 so that the V-dancing does not appear on the TV monitor screen.

2-3-5. ARTIFICAL V-SYNC FOR ARTIFICAL NTSC ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR2009	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR		

1. Playback the just recorded portion and place the deck in STILL mode.
2. Adjust the VR2009 so that the V-dancing does not appear on the TV monitor screen.

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-3-6. LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR501	RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	130+-5mVp-p	

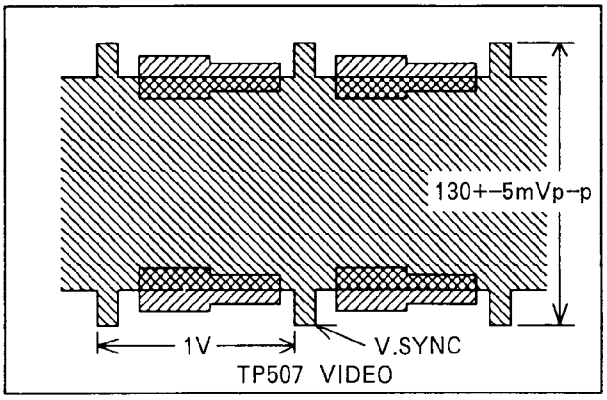


Fig. E4

2-3-7. CHROMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR502	RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	32+-2mVp-p	

1. Connect the oscilloscope to TP507(HOT) and TP508(GND).
2. Connect a jumper wire between P3001-1 and GND. And then place the unit to Recording mode.
3. Adjust VR502, so that chroma level becomes 32+-2mVp-p.

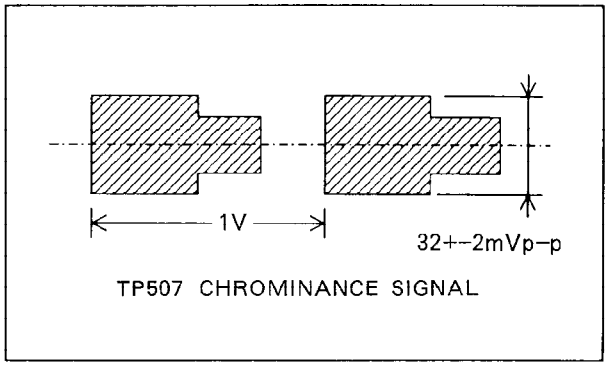


Fig. E5

2-3-8. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
I/O PACK-13 (VIDEO OUT)	VR3012	SELF RECORDING	VIDEO SWEEP
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLO-SCOPE		

1. Set the sweep generator output as shown in below.

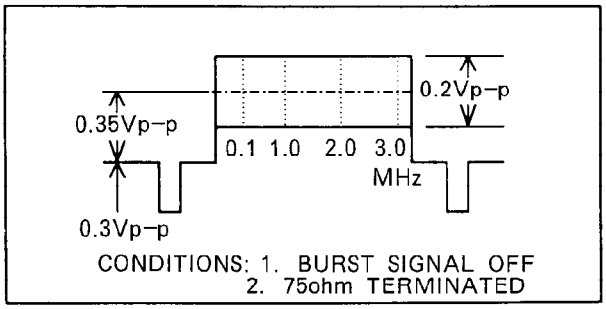


Fig. E6

2. Picture Sharpness Control is centre fix position.
3. Adjust the VR3012 so that the waveform becomes as shown in below.

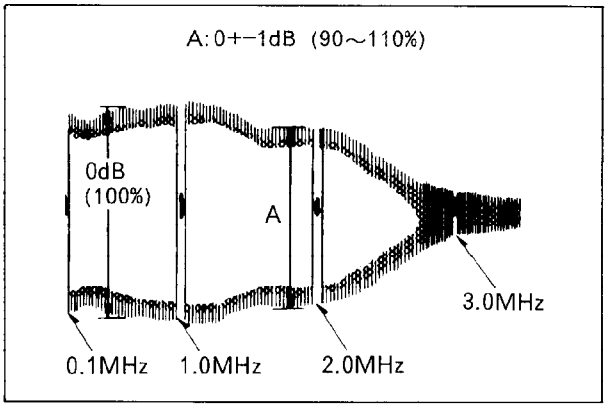


Fig. E7

2-3-9. Y-NR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
C306−(+)	VR302	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO−SCOPE	WAVEFORM IS MINIMIZED	

1. Connect the oscilloscope to (+)side of C306 on Sub Main C.B.A..
2. Adjust VR302 so that the waveform is minimized as shown below.

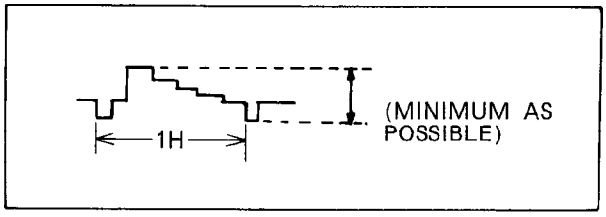


Fig. E8

2-3-10. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
I/O PACK−13 (VIDEO OUT)	VR803	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO−SCOPE	0.55+−0.05Vp−p	

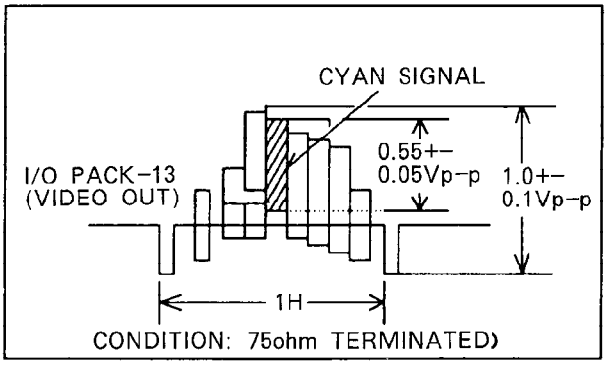


Fig. E9

2-3-11. SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC851−11	T851	RECORDING	SECAM VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO−SCOPE	Portion A is peak to negative direction.	

1. Adjust T851 so that the portion "A" becomes maximum waveform.

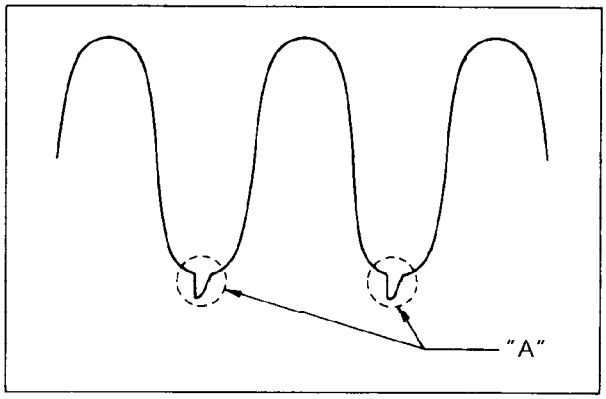


Fig. E10

2-3-12. AFC FREE RUN FOR ARTIFICIAL NTSC ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3801-9	VR3801	STOP	SIGNAL GENERATOR (8KHz,-10dB)
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GENERATOR/ FREQUENCY COUNTER	15735+-100Hz	

AUDIO SECTION

2-3-13. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002(+) TP4003(-)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	2.4+-0.1mVrms	

TIMER SECTION

NOTE: Do not connect the AC power plug.

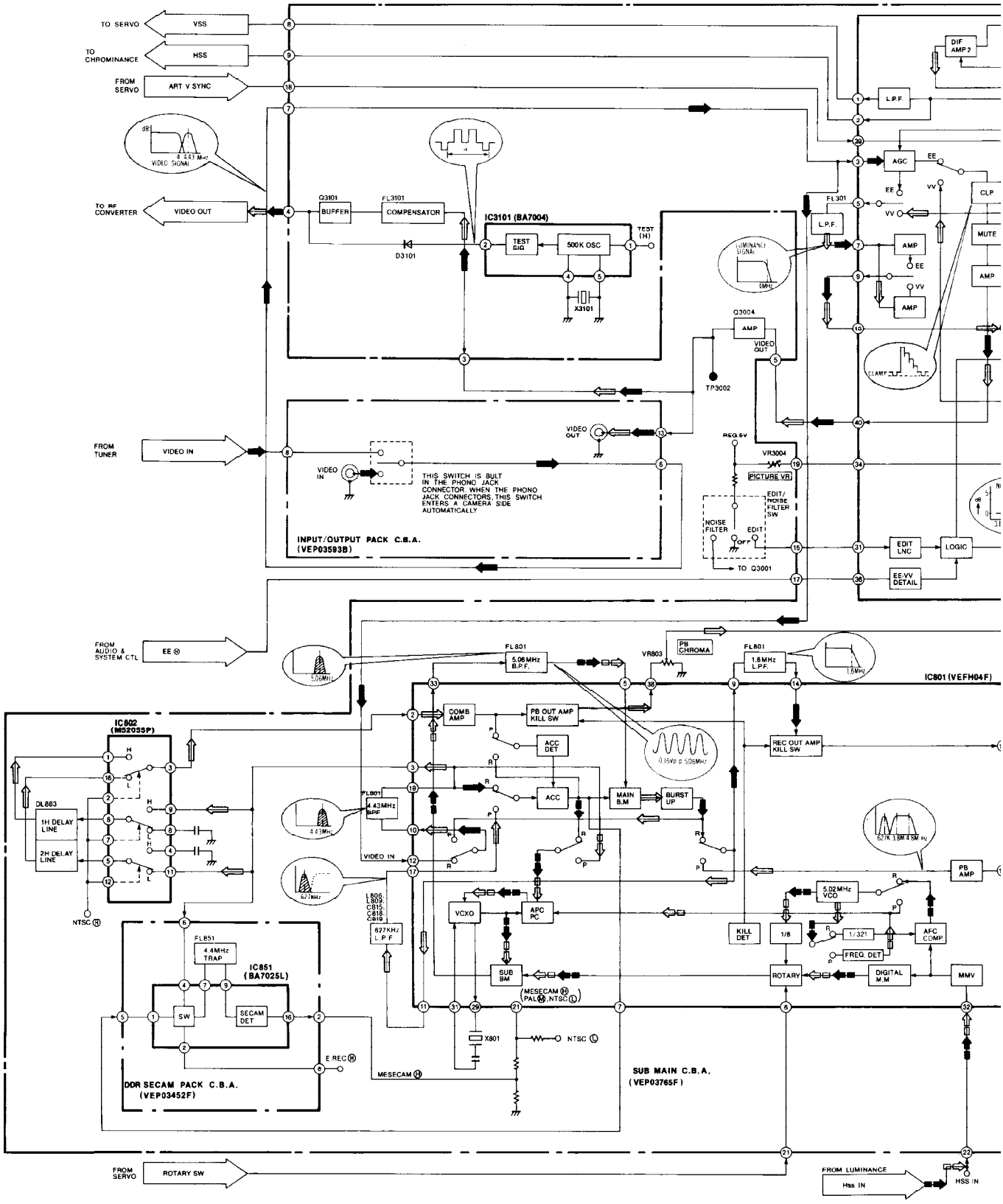
2-3-14. TIMER REFERENCE CLOCK ADJUSTMENT

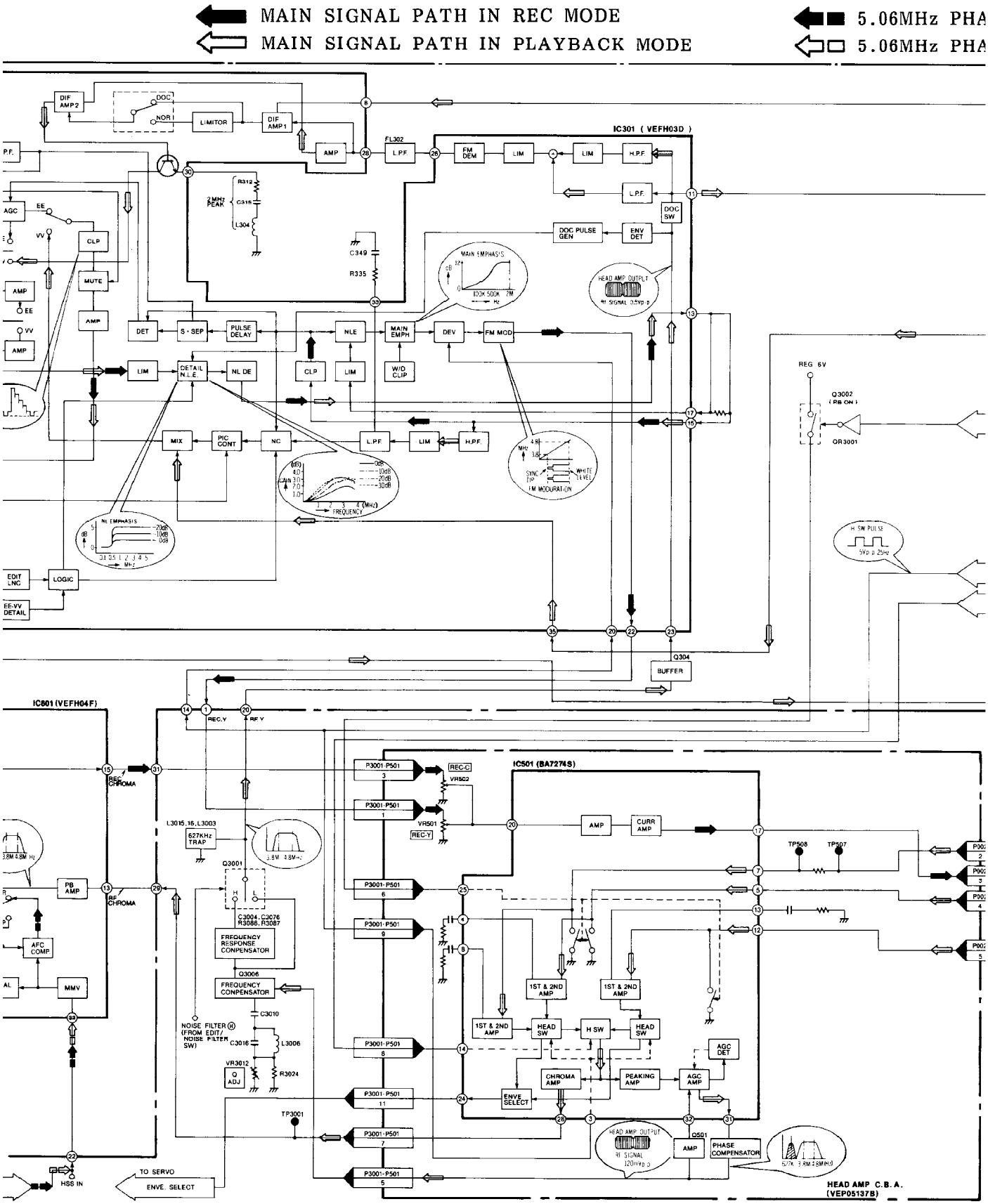
TP	ADJ.	MODE	INPUT
TP7501	C7501		
TAPE	**M. EQ.**	**SPEC.**	
	UNIVERSAL COUNTER	488.2812+-0.001us	

1. Connect a jumper wire between P7501-10 and 11.
2. Connect a jumper wire between P7501-8 and GND
3. Connect a diode(MA165) between IC7501-36 and 56.

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

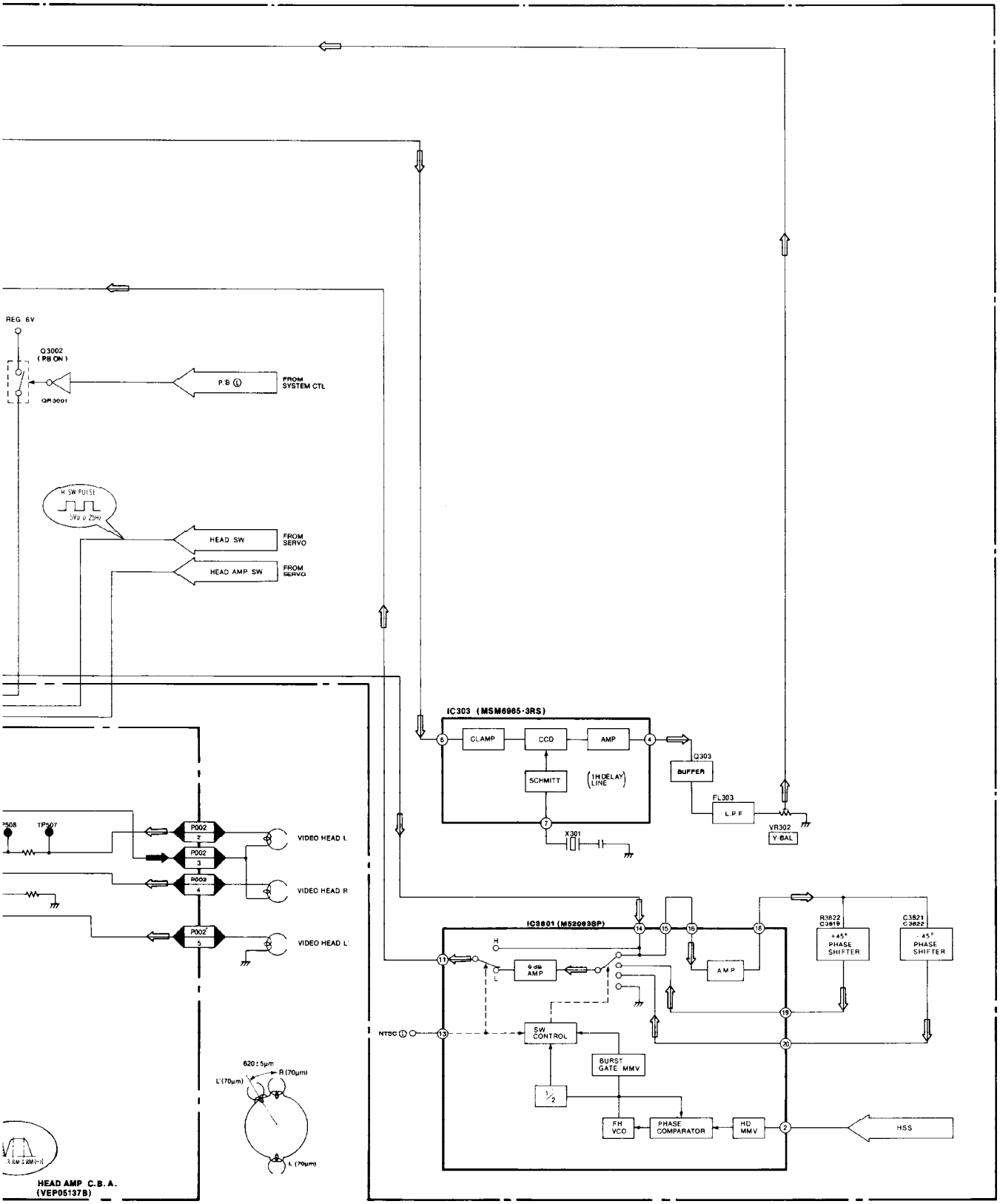
3-1. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

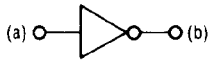
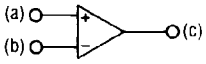
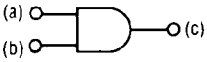
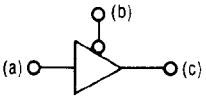
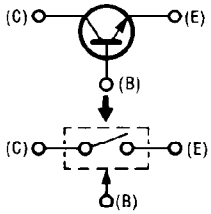
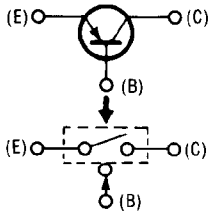
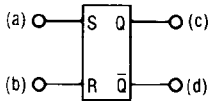



MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHA
5.06MHz PHA
IC301 (VEFH03D)
IC801 (VEFH04F)
IC501 (BA7274S)
HEAD AMP C.B.A. (VEP05137B)
DIF AMP2
LIMITER
DIF AMP1
AMP
L.P.F.
FM DEM
LIM
H.P.F.
DOC SW
DOC PULSE GEN
ENV DET
CLP
MUTE
DET
S-SEP
PULSE DELAY
NLE
MAIN EMPH
DEV
FM MOD
NL DE
W/D CLIP
MIX
PIC CONT
NC
EDIT LNC
LOGIC
EE-VV DETAIL
REG 6V
Q3002
QR3001
BUFFER
Q304
REC-C
REC-Y
VR502
VR501
CURR AMP
1ST & 2ND AMP
HEAD SW
H SW
CHROMA AMP
PEAKING AMP
AGC AMP
AGC DET
ENVE SELECT
PHASE COMPENSATOR
Q501
PB AMP
AFC COMP
MMV
627KHz TRAP
Q3001
FREQUENCY RESPONSE CONPENSATOR
FREQUENCY CONPENSATOR
NOISE FILTER (FROM EDIT/ NOISE FILTER SW)
Q ADJ
TP3001
TP508
TP507
HSS IN
TO SERVO
ENVE. SELECT

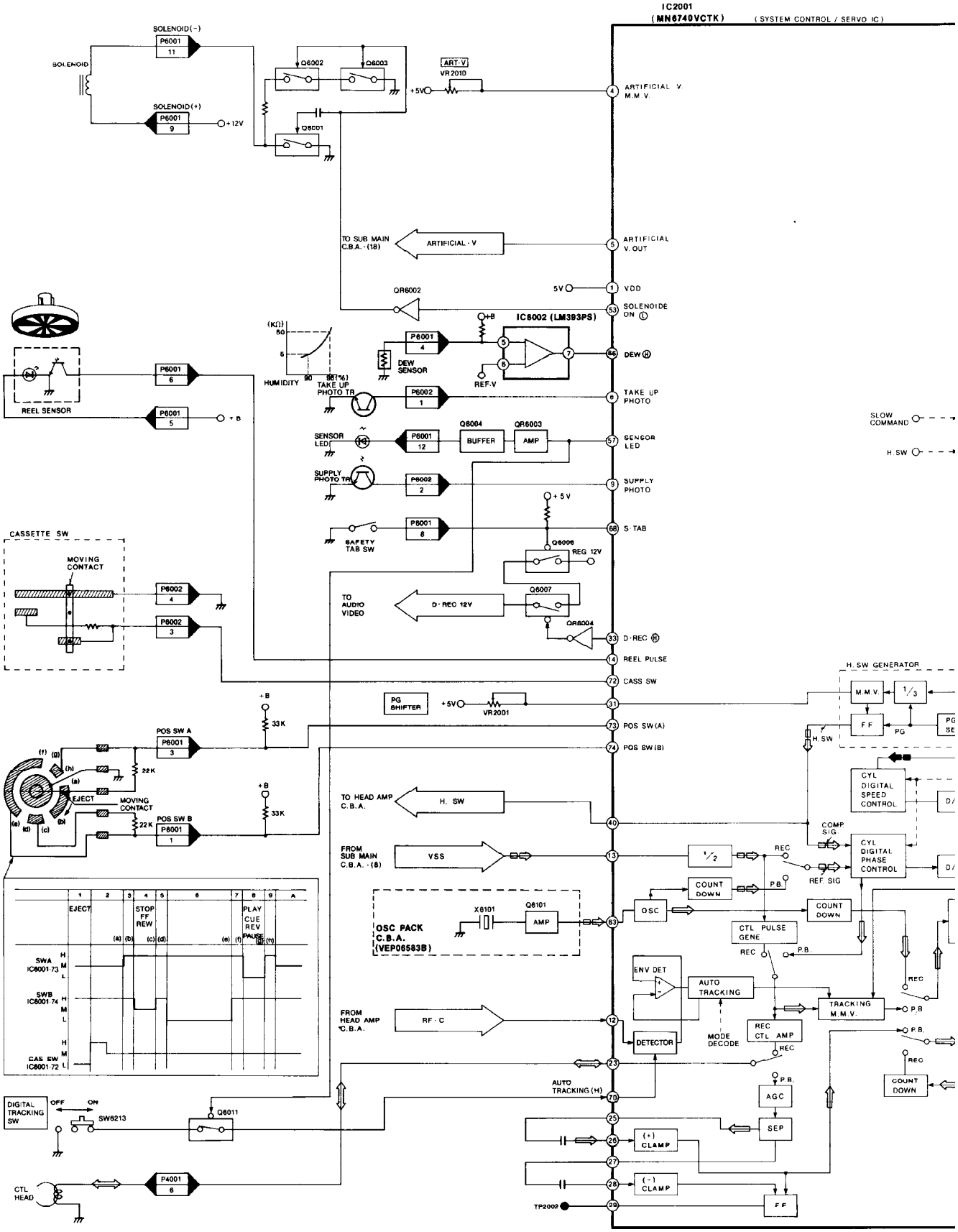
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

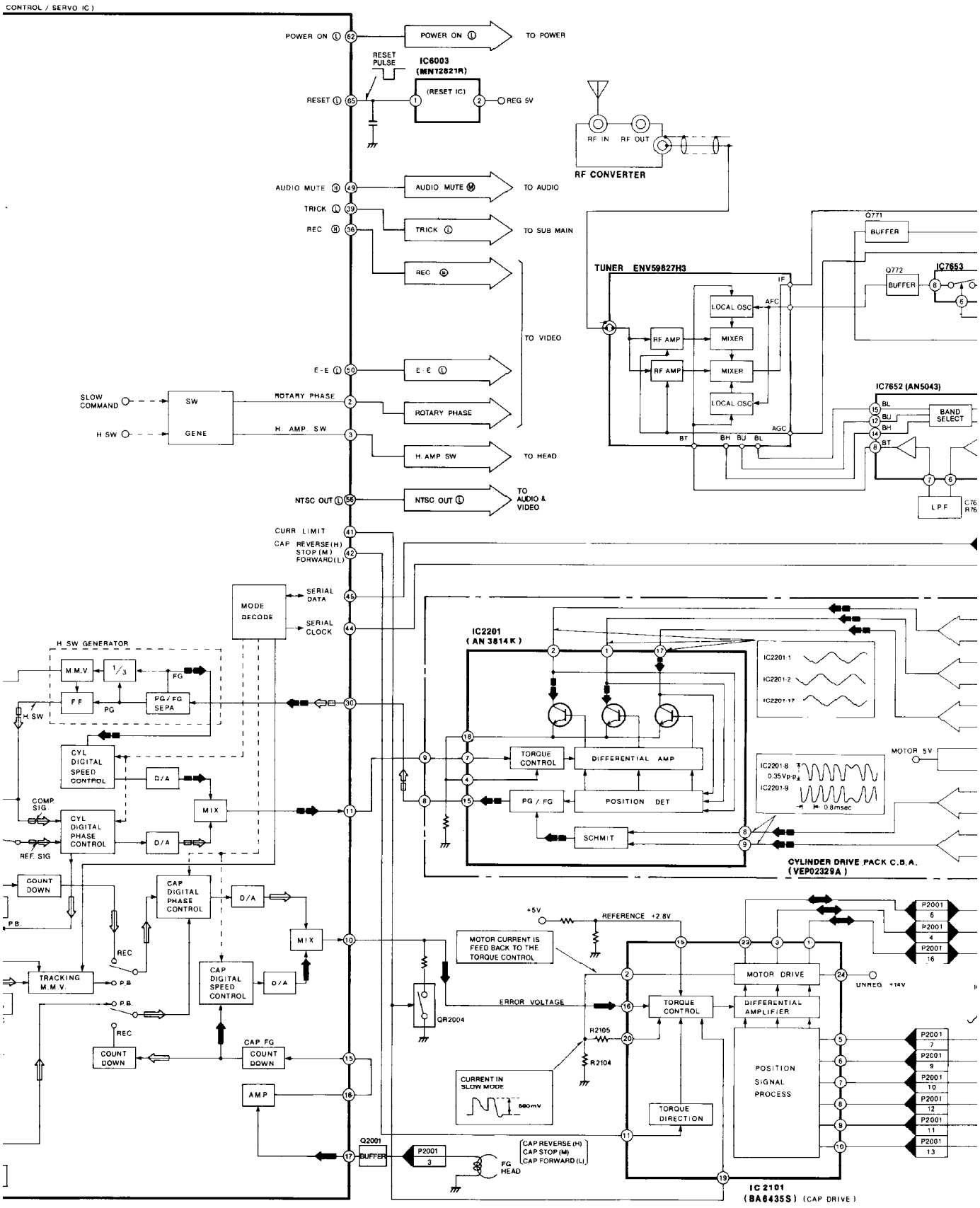
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE



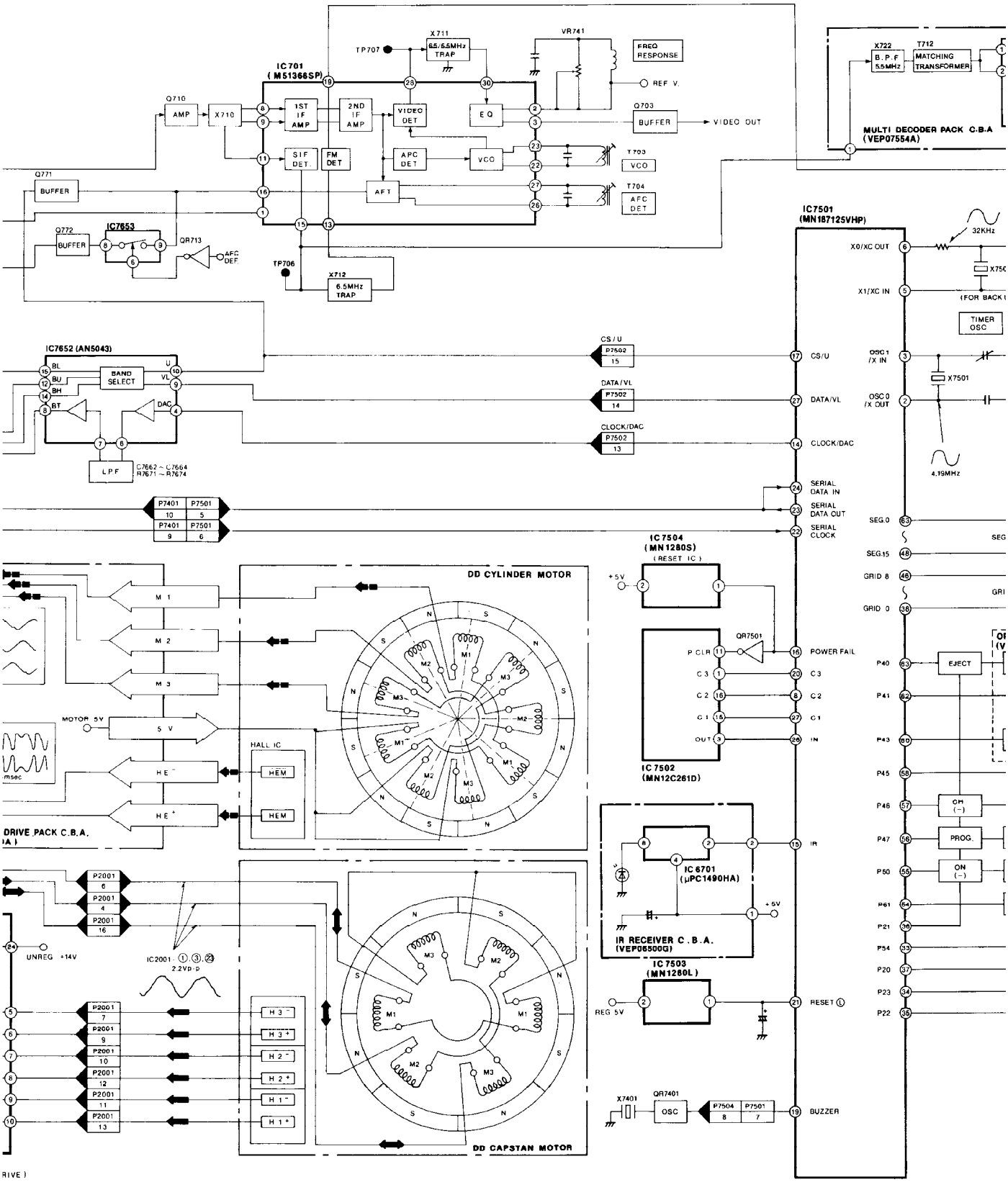
SYMBOL	TRUTH VALUE TABLE
INVERTER 	IN (a) H L OUT (b) L H
COMPARTOR 	IN (a)/(b) (a)>(b) (a)<(b) OUT (c) H L
AND CIRCUIT 	IN (a) L L H H (b) L H L H OUT (c) L L L H
OR CIRCUIT 	IN (a) L L H H (b) L H L H OUT (c) L H H H
THREE STATES BUFFER 	IN (a) H L H or L (b) L L H OUT (c) H L ※ ※ High Impedance
TR. SW (NPN TYPE) 	BASE H L TR. SW ON OFF
TR. SW (PNP TYPE) 	BASE H L TR. SW OFF ON
R-S TYPE FLIP-FLOP 	IN (a) L L ⎍ (b) L ⎍ L OUT (c) ※ L H (d) ◆ H L ※ Initial condition is maintained. ◆ Initial condition is reverced.

3-2. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

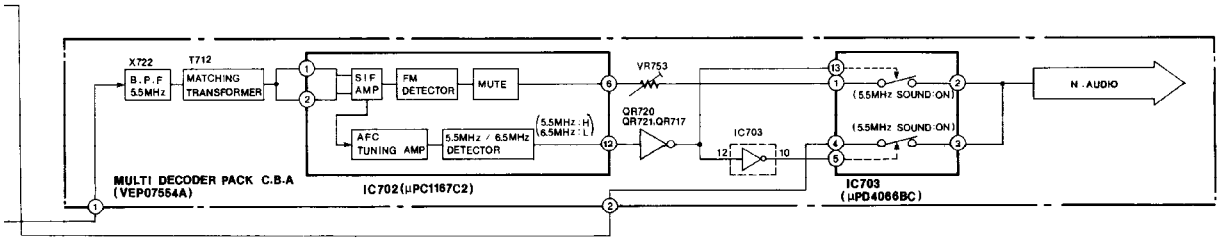


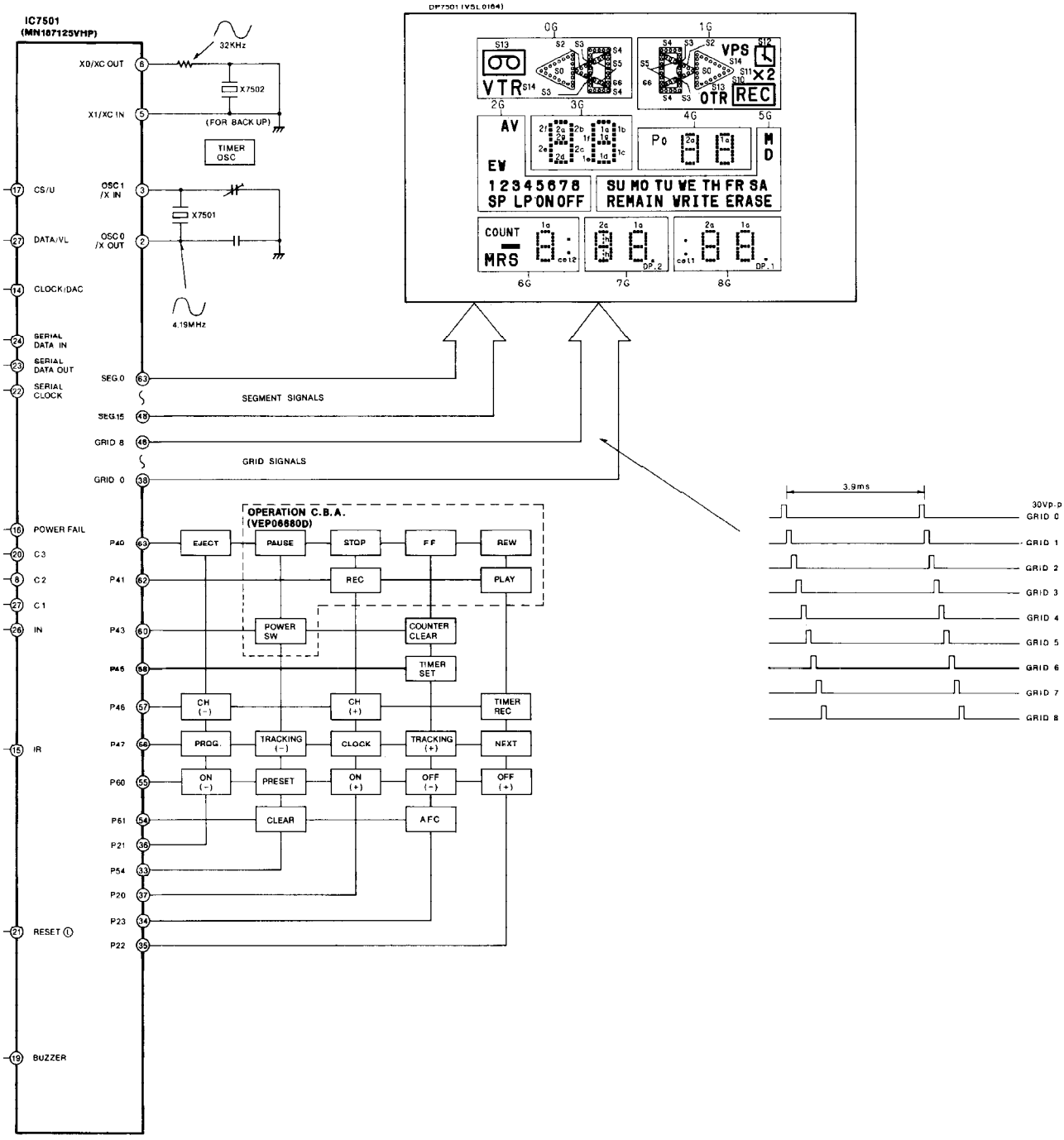

CONTROL / SERVO IC)
POWER ON
TO POWER
RESET PULSE
IC6003 (MN12821R)
(RESET IC)
REG 5V
RESET
RF IN
RF OUT
RF CONVERTER
AUDIO MUTE
TO AUDIO
TRICK
REC
TO SUB MAIN
TO VIDEO
E-E
ROTARY PHASE
H. AMP. SW
TO HEAD
NTSC OUT
TO AUDIO & VIDEO
SLOW COMMAND
H SW
SW
GENE
TUNER ENV59827H3
Q771
BUFFER
Q772
IC7653
IF
AFC
LOCAL OSC
RF AMP
MIXER
AGC
IC7652 (AN5043)
BAND SELECT
LPF
CURR LIMIT
CAP REVERSE(H) STOP (M) FORWARD(L)
MODE DECODE
SERIAL DATA
SERIAL CLOCK
H SW GENERATOR
M.M.V.
1/3
FG
FF
PG
PG / FG SEPA
H.SW
CYL DIGITAL SPEED CONTROL
D/A
COMP. SIG.
CYL DIGITAL PHASE CONTROL
REF. SIG
MIX
COUNT DOWN
CAP DIGITAL PHASE CONTROL
P.B.
REC
TRACKING M.M.V.
CAP DIGITAL SPEED CONTROL
CAP FG
AMP
Q2001
BUFFER
P2001
FG HEAD
CAP REVERSE (H)
CAP STOP (M)
CAP FORWARD (L)
IC2201 (AN 3814 K)
TORQUE CONTROL
DIFFERENTIAL AMP
PG / FG
POSITION DET
SCHMIT
IC2201-1
IC2201-2
IC2201-17
IC2201-8
0.35Vp-p
IC2201-9
0.8msec
MOTOR 5V
CYLINDER DRIVE PACK C.B.A. (VEP02329A)
+5V
REFERENCE +2.8V
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
ERROR VOLTAGE
QR2004
R2105
R2104
CURRENT IN SLOW MODE
560mV
MOTOR DRIVE
UNREG +14V
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
POSITION SIGNAL PROCESS
TORQUE DIRECTION
P2001
IC 2101 (BA6435S) (CAP DRIVE)

MC-Service

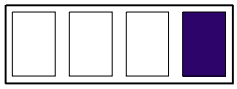

IC701
(M51366SP)
TP707
X711
6.5/5.5MHz TRAP
VR741
FREQ RESPONSE
REF V.
Q710
AMP
X710
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
Q703
BUFFER
VIDEO OUT
SIF DET.
FM DET
APC DET
VCO
T703
VCO
AFT
T704
AFC DET
Q771
BUFFER
Q772
BUFFER
IC7653
QR713
AFC DET
TP706
X712
6.5MHz TRAP
X722
B.P.F 5.5MHz
T712
MATCHING TRANSFORMER
MULTI DECODER PACK C.B.A
(VEP07554A)
IC7501
(MN187125VHP)
32KHz
X0/XC OUT
X1/XC IN
TIMER OSC
IC7652 (AN5043)
BAND SELECT
DAC
L.P.F
C7662 ~ C7664
R7671 ~ R7674
CS/U
DATA/VL
CLOCK/DAC
P7502
SERIAL DATA IN
SERIAL DATA OUT
SERIAL CLOCK
OSC1 /X IN
OSC0 /X OUT
X7501
4.19MHz
SEG.0
SEG.15
GRID 8
GRID 0
P7401
P7501
IC7504
(MN1280S)
(RESET IC)
+5V
QR7501
P CLR
C3
C2
C1
OUT
POWER FAIL
IC7502
(MN12C261D)
DD CYLINDER MOTOR
M1
M2
M3
MOTOR 5V
5V
HE⁻
HE⁺
HALL IC
HEM
DRIVE PACK C.B.A.
EJECT
OPEN (-)
PROG.
ON (-)
IC6701
(μPC1490HA)
IR RECEIVER C.B.A.
(VEP06500G)
IR
IC7503
(MN1280L)
REG 5V
RESET
X7401
QR7401
OSC
BUZZER
P2001
UNREG +14V
IC2001 · ① ③ ㉓
2.2Vp-p
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
DD CAPSTAN MOTOR

YLINDER SERVO SPEED LOOP ⇦□ CYLINDER SERVO PHASE LOOP

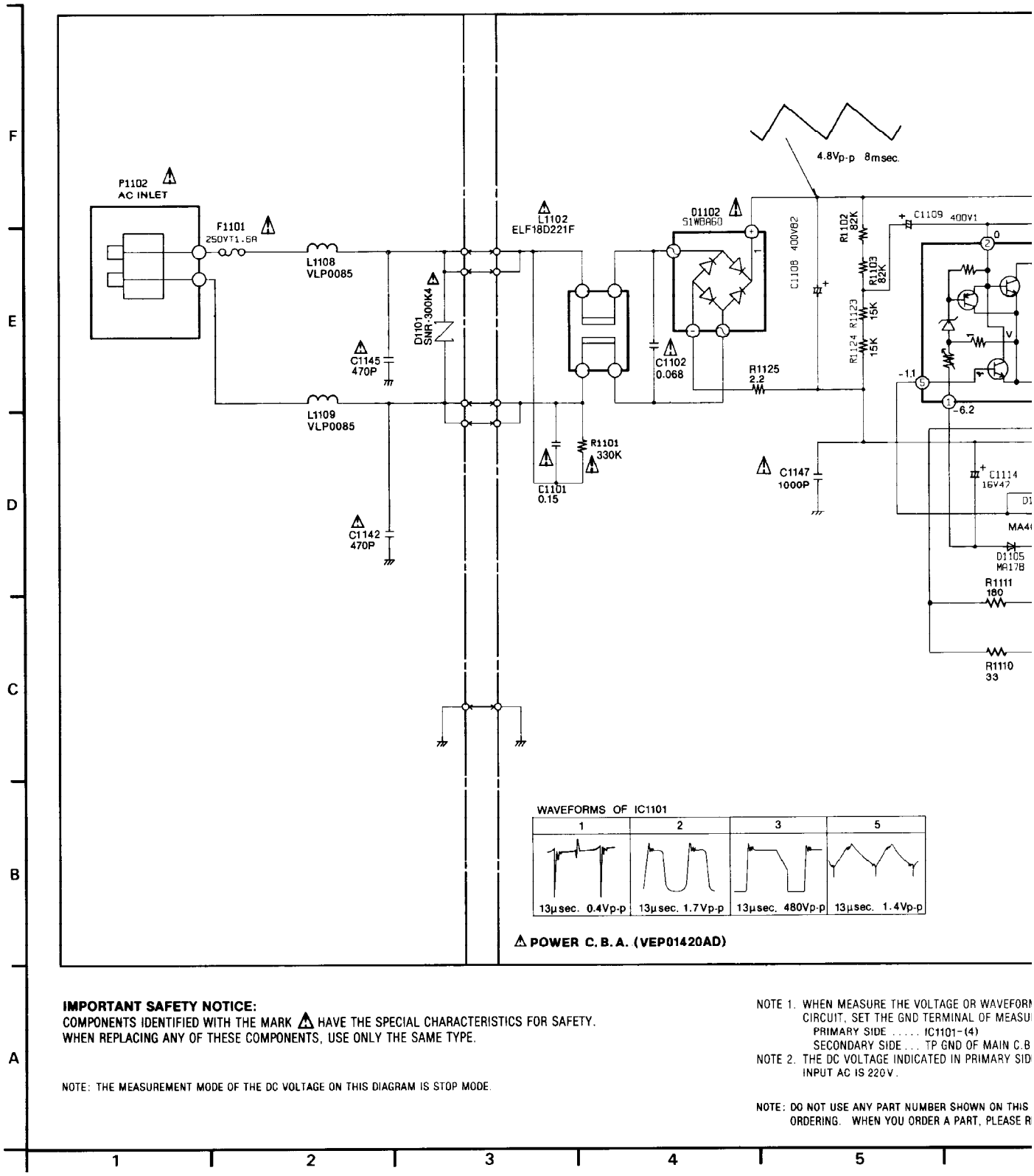




MC-Service



3-3. POWER SCHEMATIC DIAGRAM

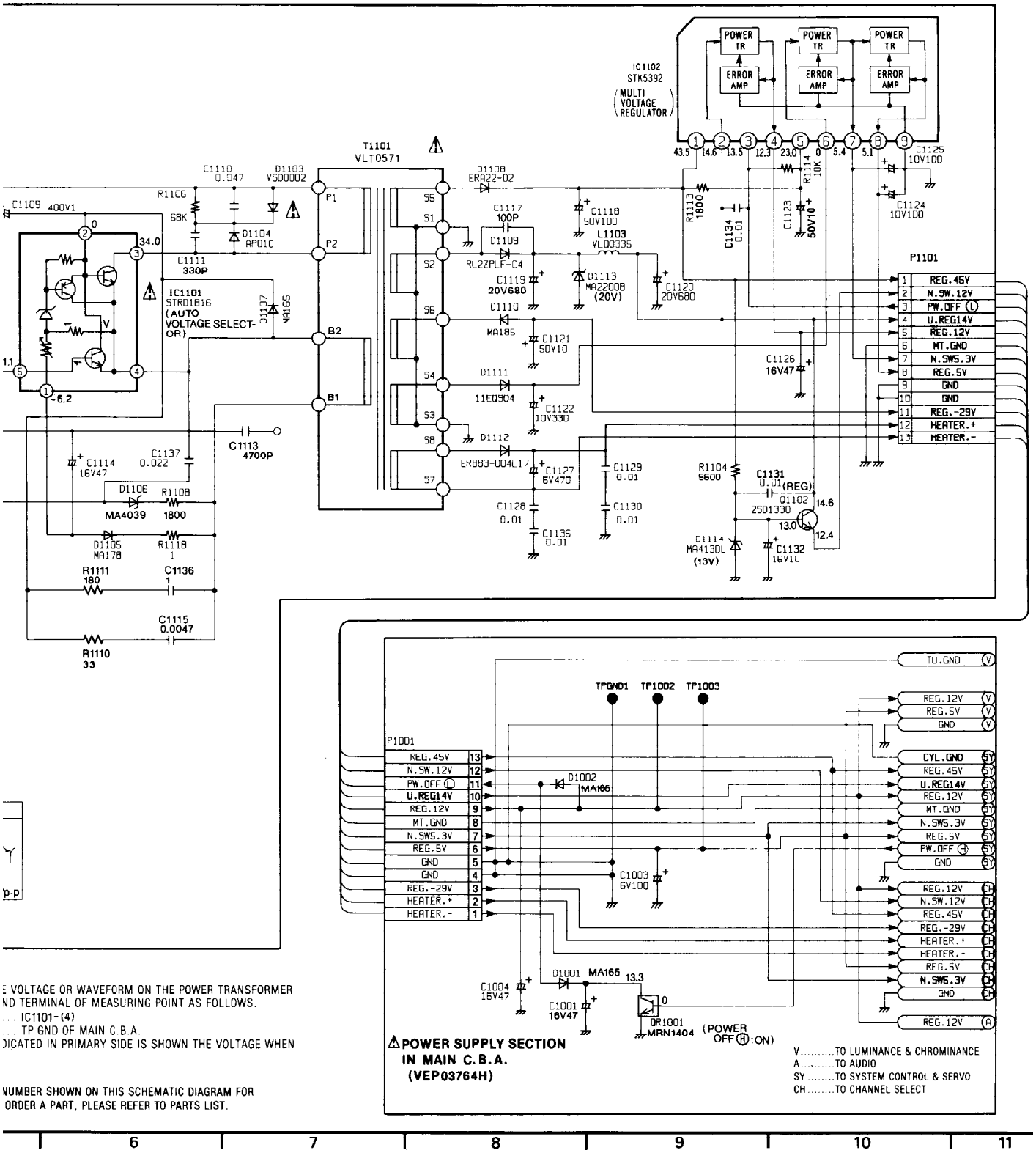


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM
CIRCUIT, SET THE GND TERMINAL OF MEASU
PRIMARY SIDE ..... IC1101-(4)
SECONDARY SIDE... TP GND OF MAIN C.B
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SID
INPUT AC IS 220V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS
ORDERING. WHEN YOU ORDER A PART, PLEASE R

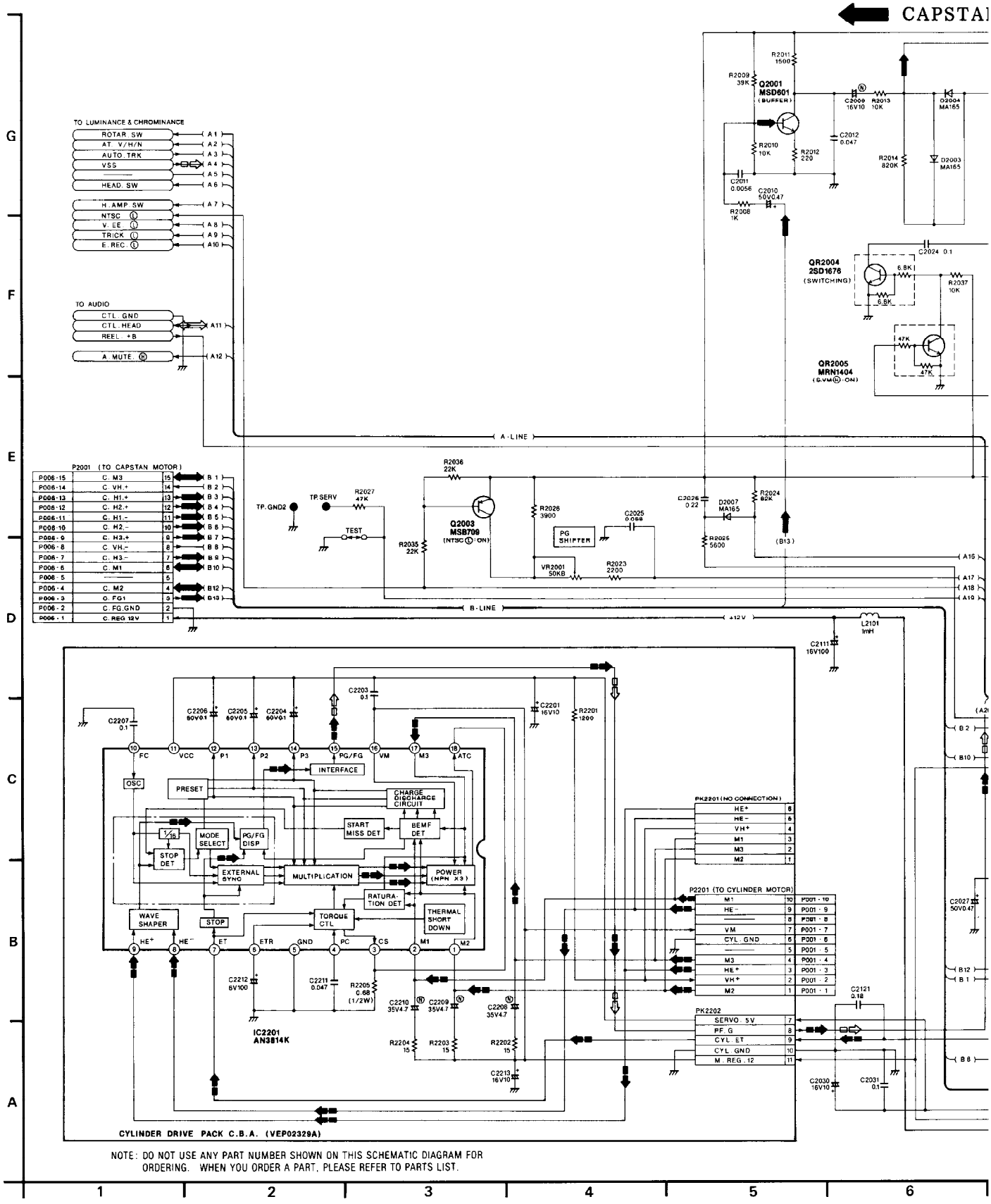


E VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER
ND TERMINAL OF MEASURING POINT AS FOLLOWS.
... IC1101-(4)
... TP GND OF MAIN C.B.A.
DICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN

NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
ORDER A PART, PLEASE REFER TO PARTS LIST.

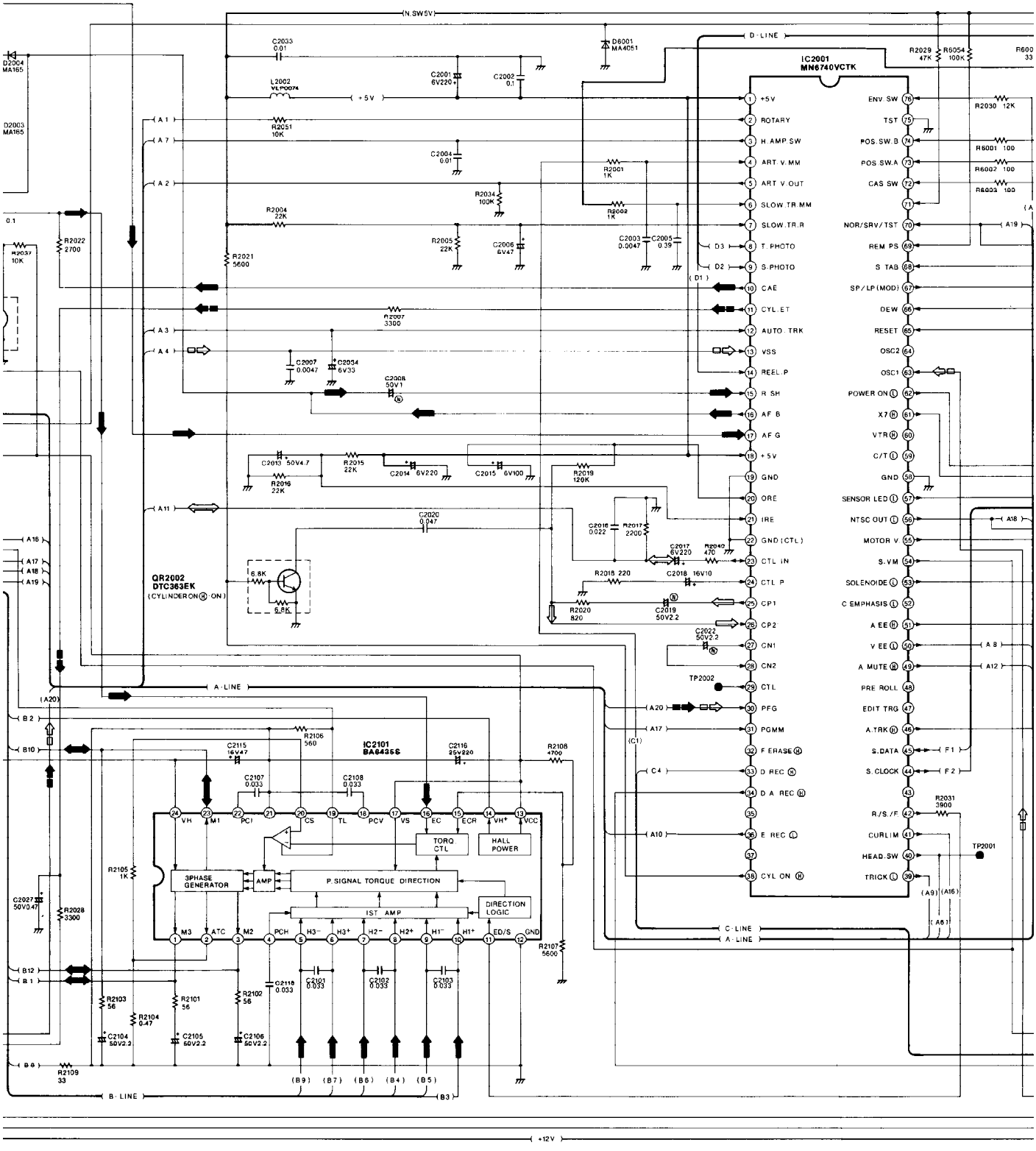
6 7 8 9 10 11

3-5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM



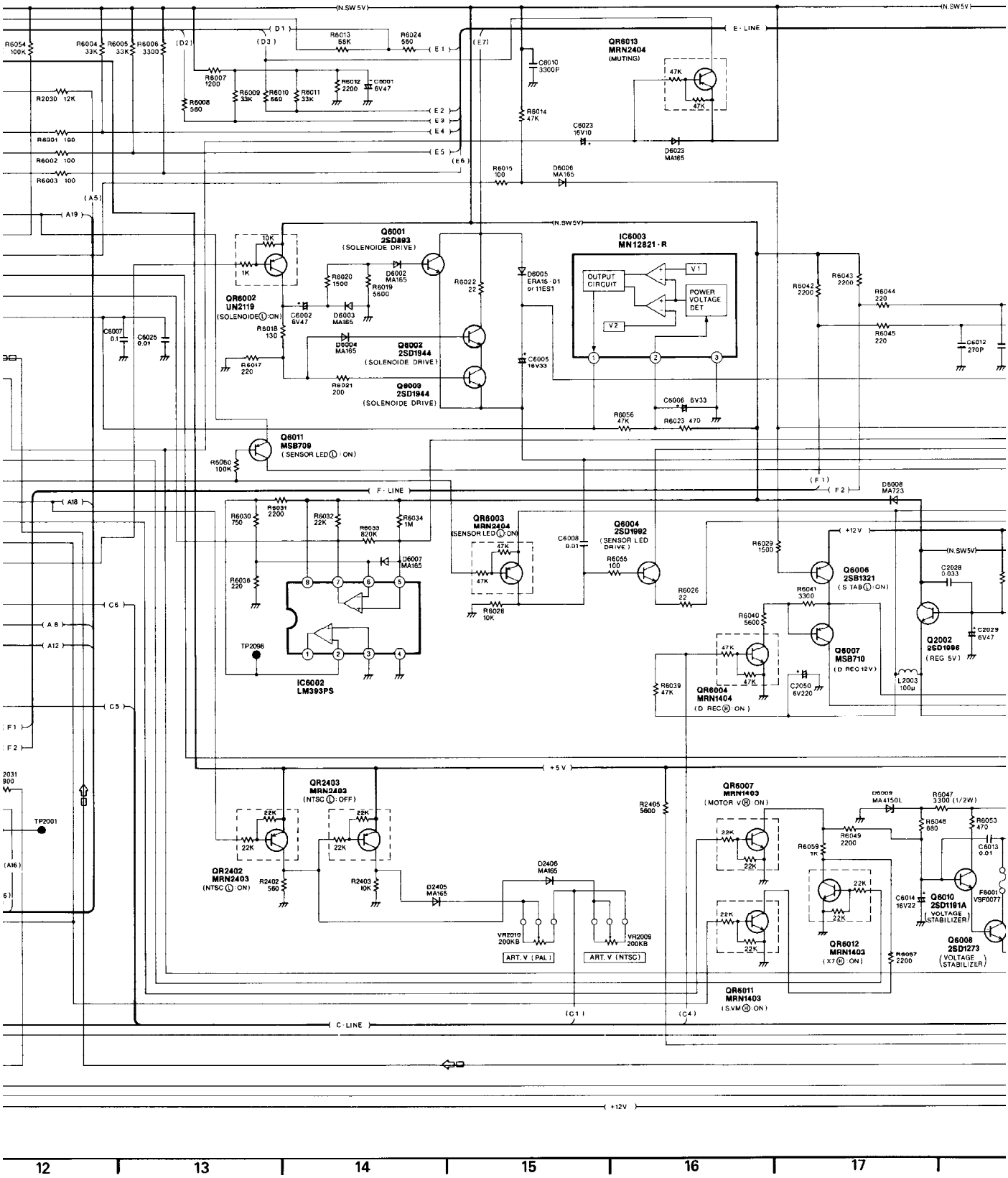
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

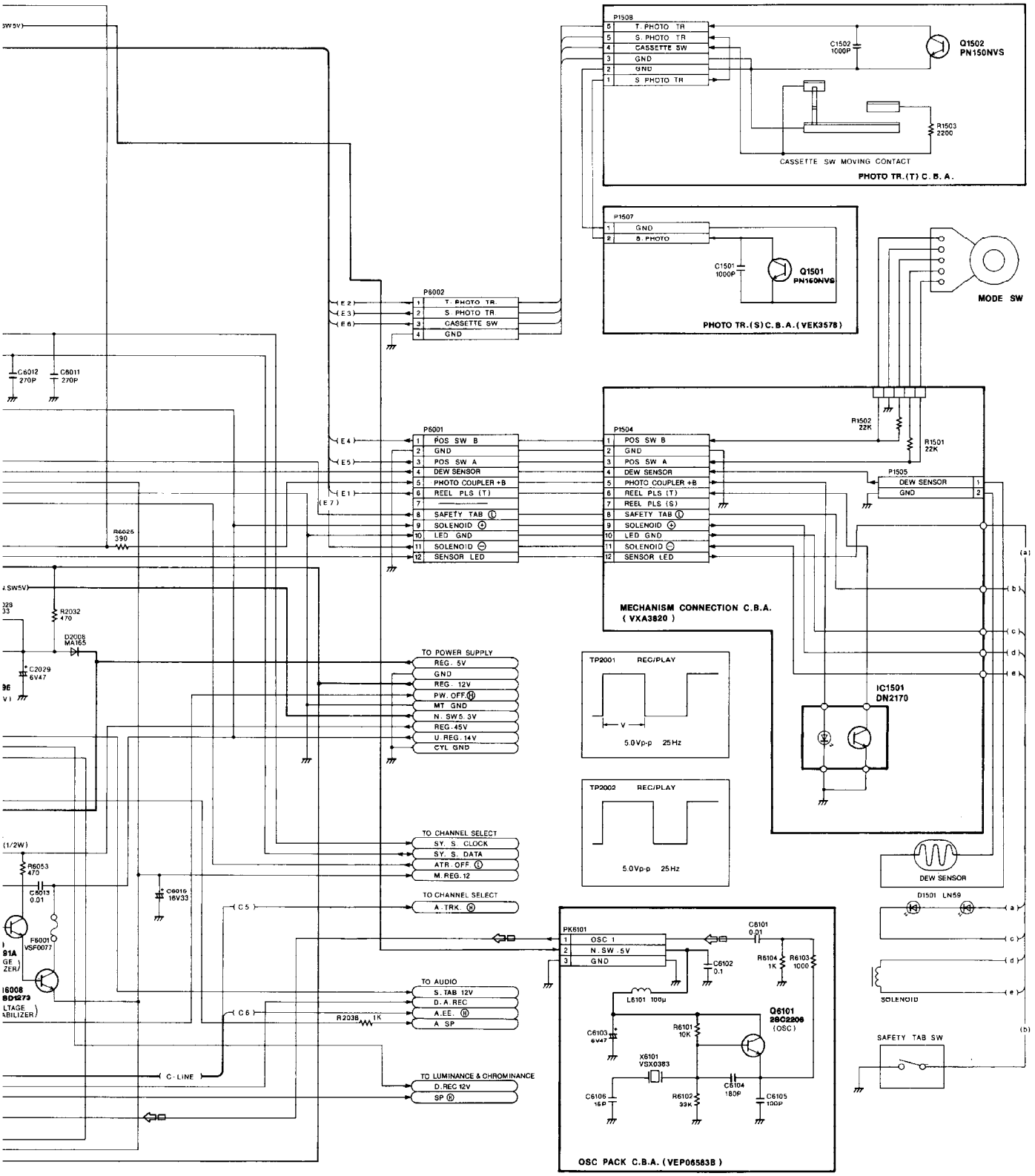
'STAN SERVO SPEED LOOP ⇦ CAPSTAN SERVO PHASE LOOP ⇦■ CYLIND



7 8 9 10 11 12

CYLINDER SERVO SPEED LOOP ⇦□ CYLINDER SERVO PHASE LOOP




P1508
T. PHOTO TR
S. PHOTO TR
CASSETTE SW
GND
GND
S. PHOTO TR
Q1502
PN150NVS
C1502
1000P
R1503
2200
CASSETTE SW MOVING CONTACT
PHOTO TR.(T) C.B.A.
P1507
GND
S. PHOTO
C1501
1000P
Q1501
PN150NVS
PHOTO TR.(S)C.B.A.(VEK3578)
MODE SW
P6002
T. PHOTO TR.
S. PHOTO TR.
CASSETTE SW
GND
C6012
270P
C6011
270P
P6001
P1504
POS SW B
GND
POS SW A
DEW SENSOR
PHOTO COUPLER +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID
LED GND
SOLENOID
SENSOR LED
R1502
22K
R1501
22K
P1505
DEW SENSOR
GND
R6025
390
R2032
470
D2008
MA165
C2029
6V47
MECHANISM CONNECTION C.B.A.
(VXA3820)
IC1501
DN2170
TO POWER SUPPLY
REG. 5V
GND
REG. 12V
PW. OFF
MT GND
N. SW 5.3V
REG. 45V
U. REG. 14V
CYL GND
TP2001
REC/PLAY
V
5.0Vp-p 25Hz
TP2002
REC/PLAY
5.0Vp-p 25Hz
DEW SENSOR
D1501 LN59
TO CHANNEL SELECT
SY. S. CLOCK
SY. S. DATA
ATR OFF
M. REG. 12
TO CHANNEL SELECT
A. TRK.
R6053
470
C6013
0.01
C6016
16V33
F6001
VSF0077
PK6101
OSC 1
N. SW. 5V
GND
C6101
0.01
C6102
0.1
R6104
1K
R6103
1000
L6101 100μ
Q6101
2SC2308
(OSC)
R6101
10K
C6103
6V47
X6101
VSX0383
C6104
180P
C6106
15P
R6102
33K
C6105
100P
OSC PACK C.B.A. (VEP06583B)
SOLENOID
SAFETY TAB SW
TO AUDIO
S. TAB 12V
D. A. REC
A. EE.
A. SP
R2038 1K
TO LUMINANCE & CHROMINANCE
D. REC 12V
SP
C-LINE
18
19
20
21
22
23

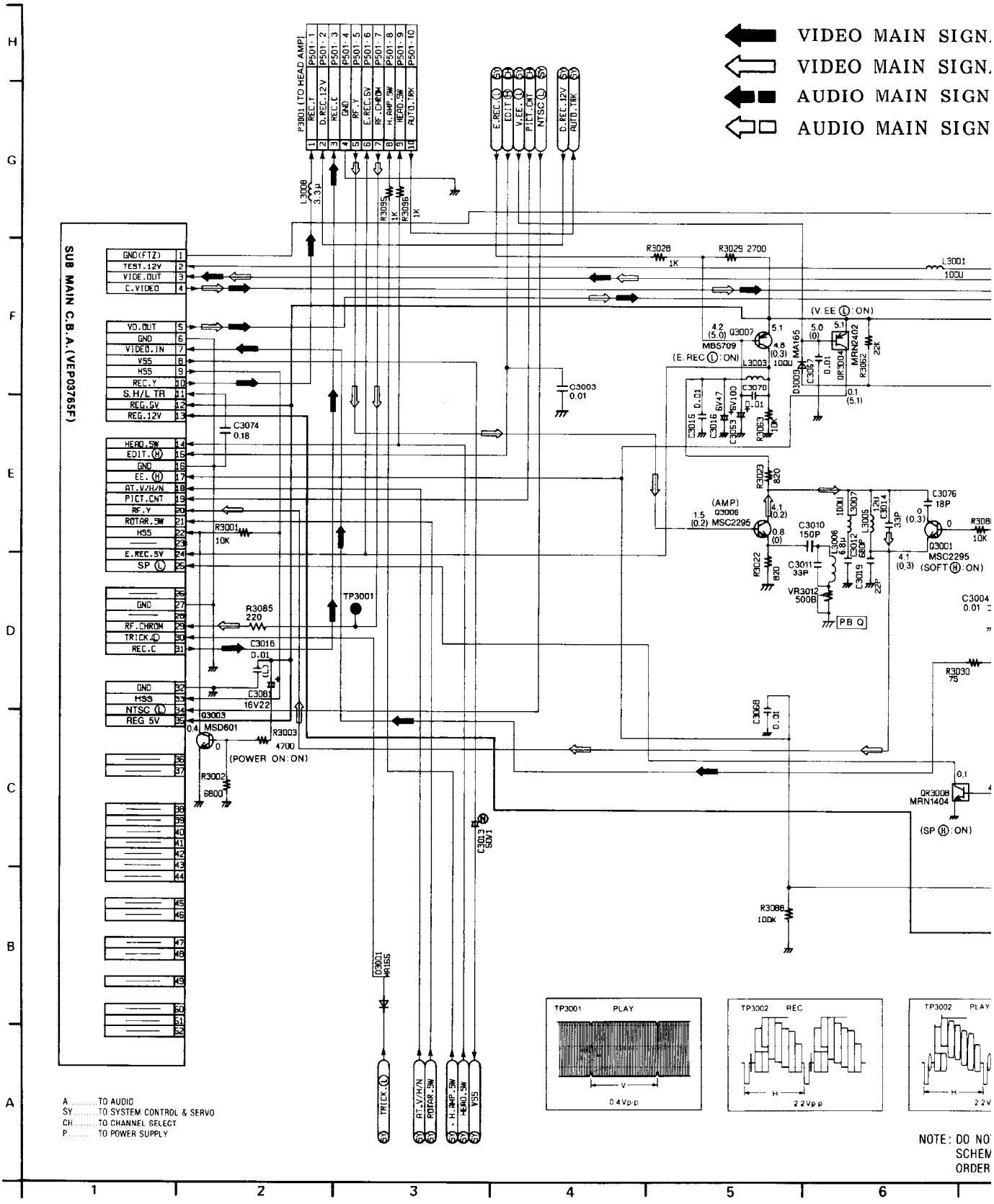
SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	5.1	0	0	0.1	0	1.3	2.5	3.3	3.2	2.6	4.3	1.7	2.5	4.3	2.5	2.5	2.5	5.1	0	2.5
PLAY	5.1	5.1	0	0.1	0	1.4	2.5	3.3	3.3	2.5	2.5	2.5	2.5	4.3	2.5	2.5	2.5	5.1	0	2.5
FF	5.1	0	0	0.1	0	1.4	2.5	3.3	3.3	2.6	4.3	1.7	2.5	2.3	2.5	2.5	—	5.1	0	2.5
REF. NO.	IC2001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	2.5	0	2.5	2.5	1.2	2.9	3.9	2.1	0	5.1	0	0	0	0	3.4	0	5.1	0	5.1	0
PLAY	2.5	0	2.5	2.5	1.2	2.5	4.1	3.0	5.1	1.1	3.0	0	0	0	3.1	0.1	5.1	5.0	5.1	5.1
FF	2.5	0	2.5	2.5	1.4	1.5	3.7	3.4	3.0	5.1	0.1	0	0	0	3.2	0.2	5.1	0	5.1	0
REF. NO.	IC2001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	4.9	2.1	0	4.7	4.2	0	0	5.1	0	0	5.1	0	5.1	0	0	5.1	4.7	0	5.1	0
PLAY	5.0	0	0	4.9	4.5	0	0	5.1	0	5.1	0	5.1	5.1	0	5.1	5.1	4.7	0	5.1	0
FF	5.0	0	0	4.6	4.6	0	0	5.1	0	0	5.1	0	5.1	0	0	5.1	4.7	0	5.1	0
REF. NO.	IC2001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76				
STOP	0	0	—	—	5.0	0	0	0.5	5.0	4.5	5.0	2.0	5.1	2.0	0	0				
PLAY	0	0	—	—	5.1	0	0	0.5	5.0	4.5	5.1	2.0	0	5.1	0	0.1				
FF	0	0	—	—	5.1	0	0	0.5	5.0	4.5	5.1	2.0	5.1	2.0	0	0				
REF. NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	7.1	0	7.1	1.4	2.0	2.1	2.1	2.0	2.1	2.1	2.1	0	5.1	3.7	2.7	2.6	5.1	0	0.4	0
PLAY	2.3	0.1	2.3	1.3	2.1	2.1	2.1	2.1	2.1	2.1	0	0	5.0	3.8	2.7	2.5	5.0	0.6	0.4	0.1
FF	3.1	0	3.1	1.3	2.1	2.1	2.1	2.1	2.1	2.1	0	0	5.0	3.8	2.7	2.5	5.0	0.6	0.4	0
REF. NO.	IC2101																			
MODE	21	22	23	24																
STOP	0	0.6	7.1	14.0																
PLAY	0	0.6	2.3	10.3																
FF	0	0.6	3.1	14.0																
REF. NO.	IC2201																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	14.0	14.0	0	0	0	2.6	0	0.5	0.4	1.2	5.1	4.3	4.3	3.9	5.1	14.0	14.0	0		
PLAY	10.5	10.5	0	0.5	0	2.6	0.3	0.5	0.5	2.8	5.1	3.6	3.6	3.6	1.2	10.1	10.5	0		
FF	14.0	14.0	0	0	0	2.6	0	0.4	0.7	1.2	5.1	4.3	4.3	3.9	5.1	13.9	13.9	0		
REF. NO.	IC6002										IC6003									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	0	1.6	0	0	0	0.3	0	5.1			5.0	5.1	0							
PLAY	0	1.5	0	0	0	0.3	0	5.1			5.0	5.0	0							
FF	0	1.5	0	0	0	0.3	0	5.1			5.0	5.1	0							

SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART

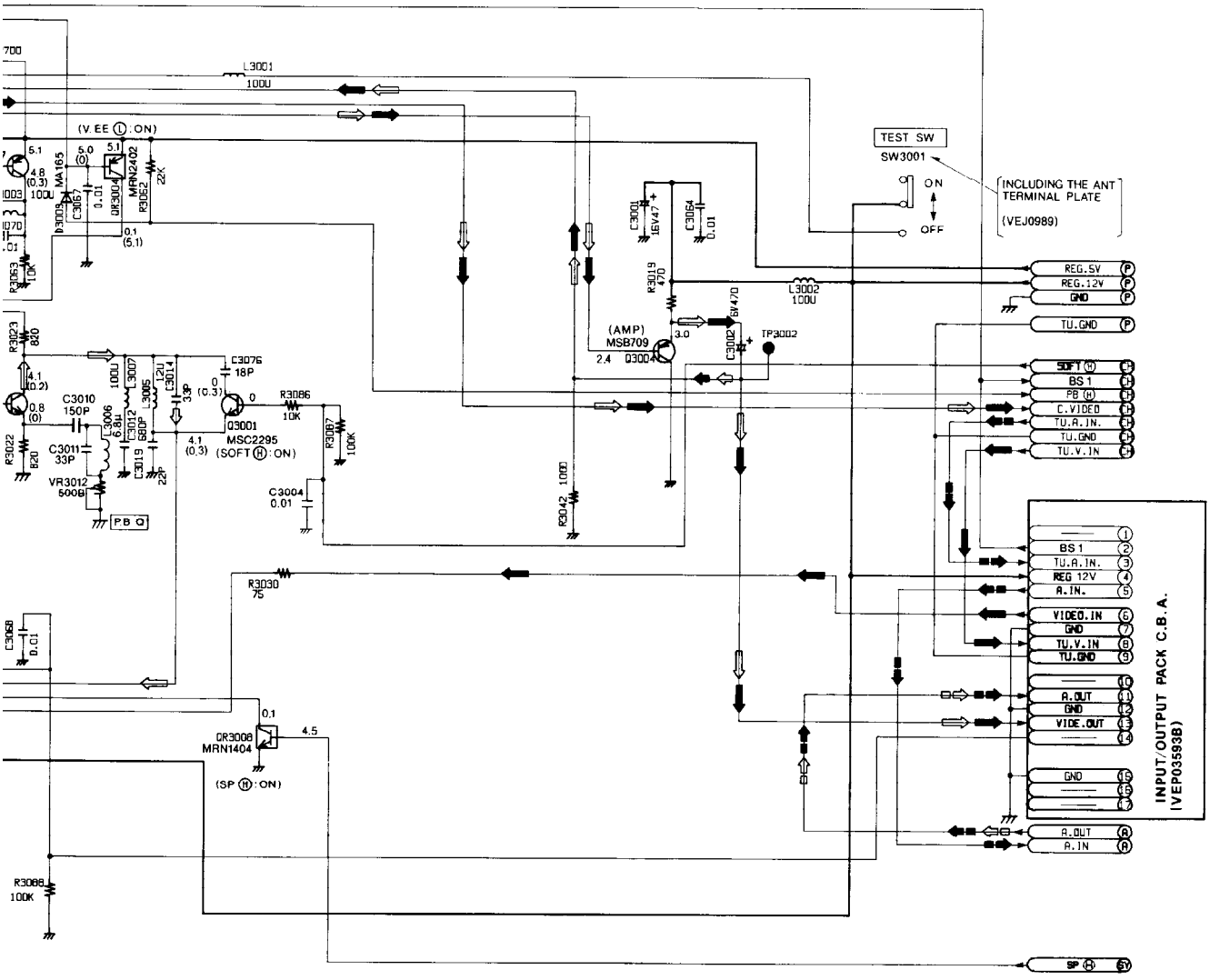
REF. NO.	Q2001			Q2002			Q2003			Q6001			Q6002			Q6003		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.3	2.7	1.0	5.2	5.4	5.8	5.1	4.4	5.1	0	15.7	0.1	0.2	15.7	0.4	0	0.3	0
PLAY	0.4	2.6	1.0	5.2	5.4	5.8	5.1	4.7	5.1	0	15.6	0.2	0.2	15.6	0.3	0	0.2	0
FF	0.4	2.6	0.9	5.2	5.4	5.8	5.1	4.4	5.1	0	15.7	0.2	0.4	15.7	0.5	0	0.4	0
REF. NO.	Q6004			Q6006			Q6007			Q6008			Q6010			Q6011		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.8	14.0	0.6	12.2	12.2	11.5	12.2	0	12.2	14.0	15.7	14.5	14.5	43.4	15.0	4.5	0	4.6
PLAY	0.8	10.3	0.6	12.2	12.2	11.5	12.2	−0.2	12.2	10.3	15.6	10.9	10.9	43.4	11.4	4.8	0	4.4
FF	0.8	14.0	0.6	12.2	12.2	11.5	12.2	0	12.2	14.0	15.6	14.6	14.6	43.4	15.1	4.6	0	4.6
REF. NO.	QR2002			QR2004			QR2005			QR2402			QR2403			QR6002		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0	0	0	2.5	0	2.5	0	5.1	0	5.1	5.1	5.1	0	5.1	0	5.1
PLAY	0	0	5.0	0	0	2.5	0	2.5	0	5.1	0	5.1	5.1	5.1	0	5.1	0	5.1
FF	0	0.9	0	0	0	2.5	0	2.5	0	5.1	0	5.1	5.1	5.1	0	5.1	0	5.1
REF. NO.	QR6003			QR6004			QR6007			QR6011			QR6012			QR6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	0.6	4.5	0	12.2	0	0	15.0	0	0	15.0	0	0	15.0	0	5.1	3.3	5.1
PLAY	5.0	0.6	4.6	0	12.2	0	0	0.1	5.0	0	0.1	0	0	0.1	0	5.1	3.3	5.1
FF	5.0	0.6	4.5	0	12.2	0	0	15.1	0	0	15.1	0	0	15.1	0	5.1	3.3	5.1

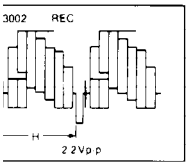
3-8. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

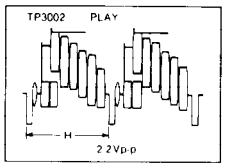


AM

- VIDEO MAIN SIGNAL PATH IN REC MODE
- VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
- AUDIO MAIN SIGNAL PATH IN REC MODE
- AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



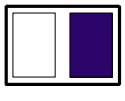




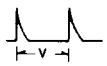
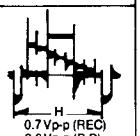
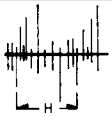
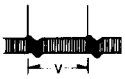
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

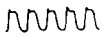
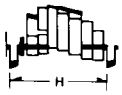
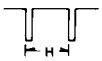
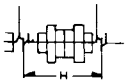
6 | 7 | 8 | 9 | 10 | 11



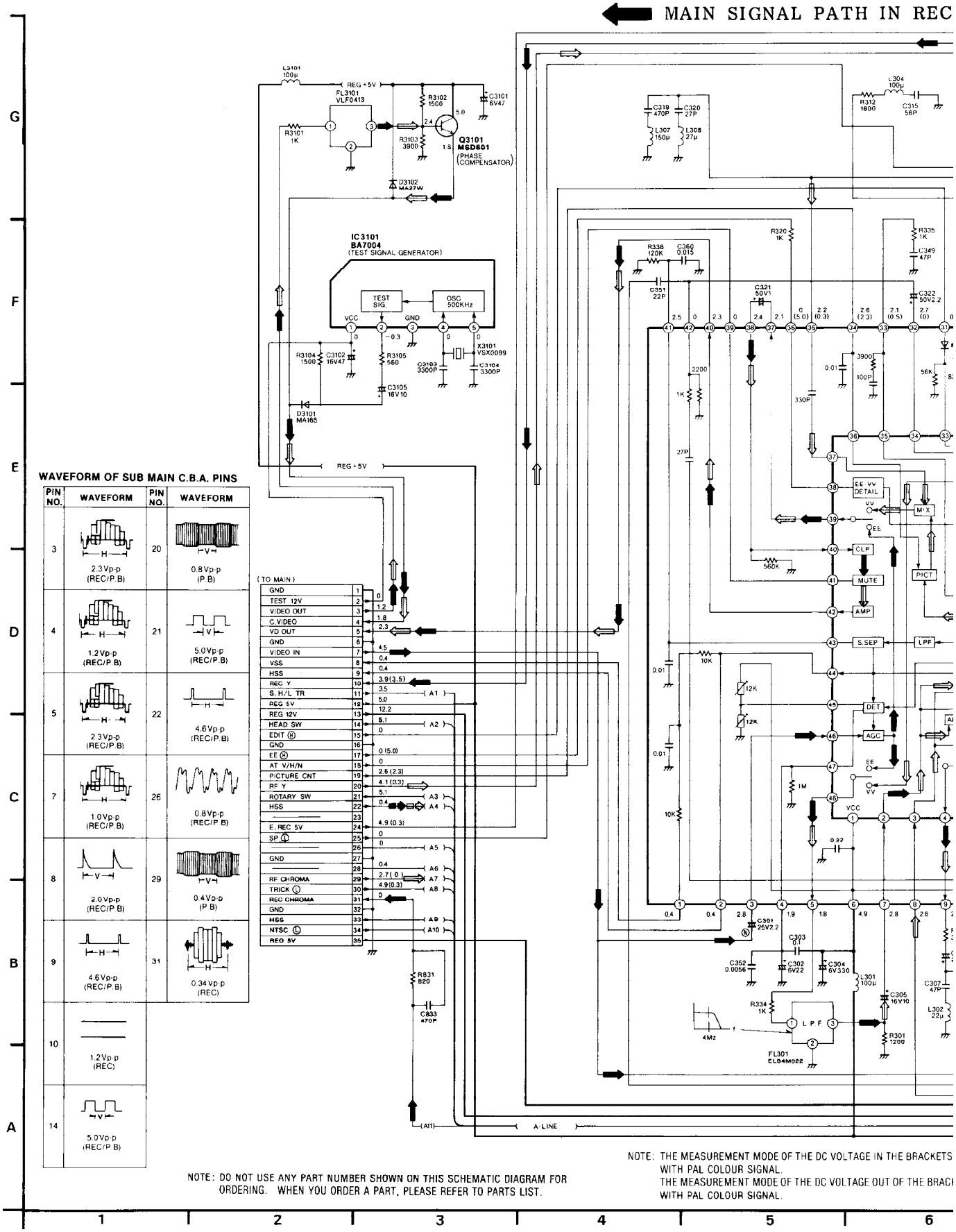
IC301 (VEFH03D)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 2.0Vp-p (REC/P.B)	16	 0.7Vp-p (REC) 0.6Vp-p (P.B)
2	4.8Vp-p (REC/P.B)	17	0.9Vp-p (REC/P.B)
3	1.0Vp-p (REC/P.B)	22	1.4Vp-p (REC)
5	0.9Vp-p (REC)	23	1.0Vp-p (P.B)
5	1.0Vp-p (P.B)	26	0.9Vp-p (P.B)
7, 8	0.46Vp-p (REC) 0.5Vp-p (P.B)	28	0.4Vp-p (P.B)
9	0.66Vp-p (REC)	30	1.2Vp-p (P.B)
10	 0.6Vp-p(REC)	33	0.26Vp-p (P.B)
11	0.3Vp-p (REC/P.B)	35	0.4Vp-p (P.B)
12	0.07Vp-p (REC)	37, 38	0.9Vp-p (REC/P.B)
13	0.9Vp-p (REC/P.B)	40	2.3Vp-p (REC/P.B)
15	0.9Vp-p (REC/P.B)	41	 0.5Vp-p (REC) 0.56Vp-p (P.B)

IC801 (VEFH04F)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	0.12Vp-p (REC/P.B)	15	0.48Vp-p (REC)
3	1.0Vp-p (REC/P.B)	17	0.48Vp-p (REC) 0.18Vp-p (P.B)
5	0.19Vp-p (REC/P.B)	19	0.28Vp-p (REC) 0.25Vp-p (P.B)
6	5.0Vp-p (REC/P.B)	28	0.8Vp-p (REC/P.B)
7	0.6Vp-p (REC) 0.5Vp-p (P.B)	29	 1.1Vp-p (REC/P.B)
9	0.36Vp-p (REC)	31	0.8Vp-p (REC/P.B)
10	 1.1Vp-p (REC)	32	4.8Vp-p (REC/P.B)
10	1.2Vp-p (P.B)	33	1.0Vp-p (REC) 0.8Vp-p (P.B)
11	0.4Vp-p (REC) 0.12Vp-p (P.B)	34	5.0Vp-p (REC/P.B)
12	1.0Vp-p (REC/P.B)	35	 5.0Vp-p (REC/P.B)
13	0.18Vp-p (P.B)	37	 0.3Vp-p (P.B)
14	0.32Vp-p (REC) 0.1Vp-p (P.B)	38	1.0Vp-p (P.B)

3-10. SUB MAIN SCHEMATIC DIAGRAM



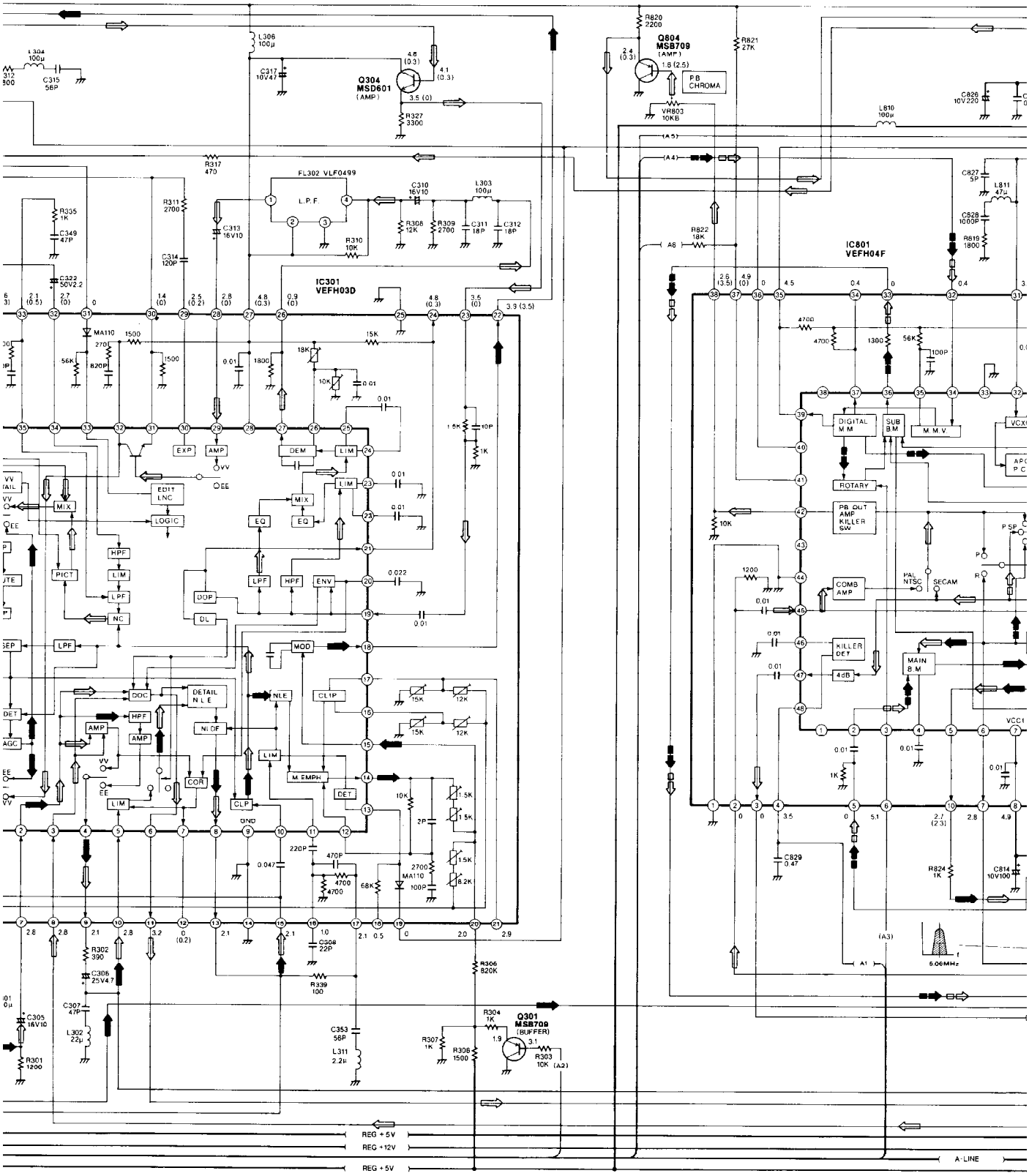
WAVEFORM OF SUB MAIN C.B.A. PINS

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
3	2.3Vp-p (REC/P.B)	20	0.8Vp-p (P.B)
4	1.2Vp-p (REC/P.B)	21	5.0Vp-p (REC/P.B)
5	2.3Vp-p (REC/P.B)	22	4.6Vp-p (REC/P.B)
7	1.0Vp-p (REC/P.B)	26	0.8Vp-p (REC/P.B)
8	2.0Vp-p (REC/P.B)	29	0.4Vp-p (P.B)
9	4.6Vp-p (REC/P.B)	31	0.34Vp-p (REC)
10	1.2Vp-p (REC)		
14	5.0Vp-p (REC/P.B)		

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACI
WITH PAL COLOUR SIGNAL.

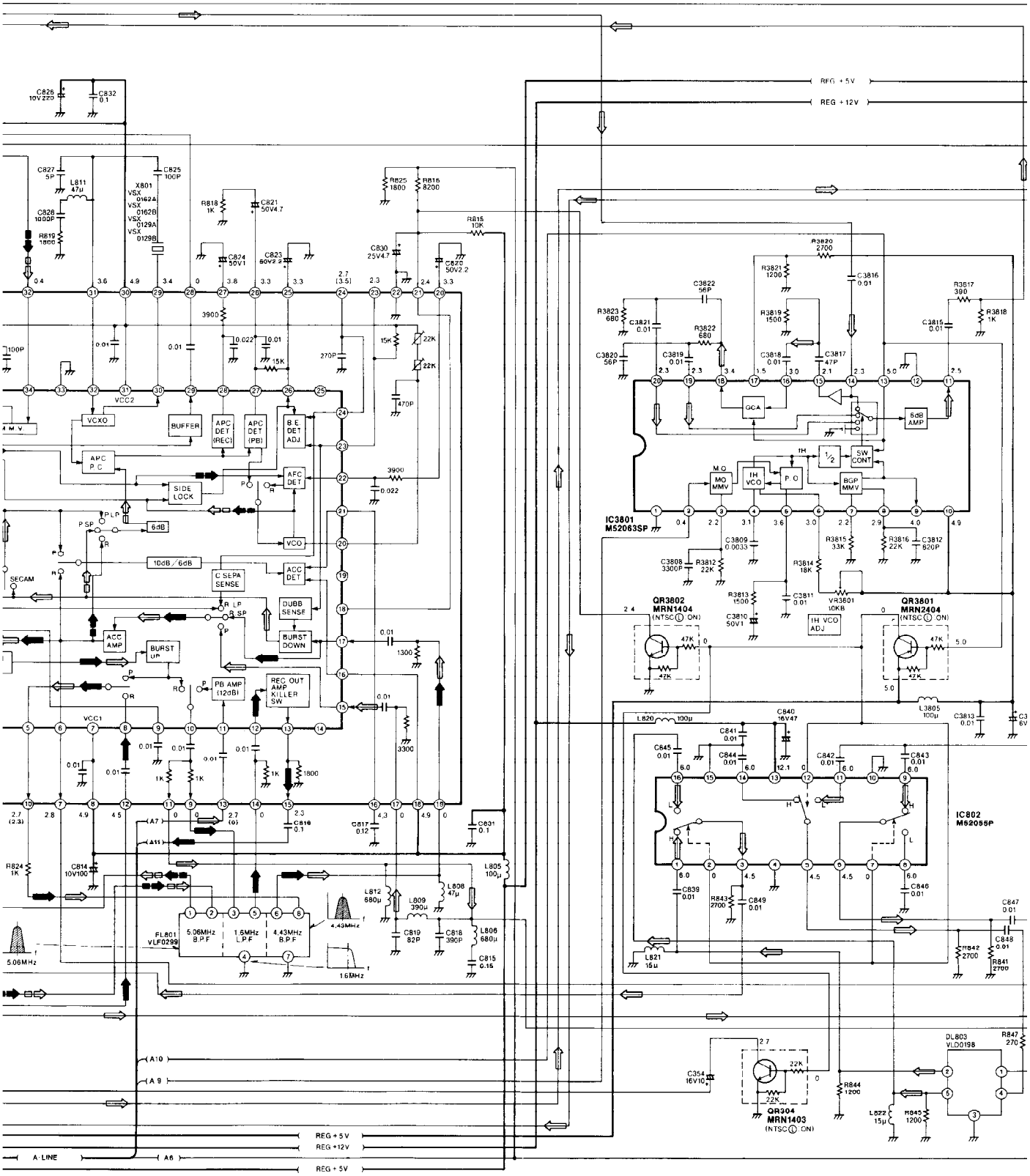
I IN REC MODE ⇦ MAIN SIGNAL PATH IN PLAYBACK MODE ◀■ 5.06MHz P



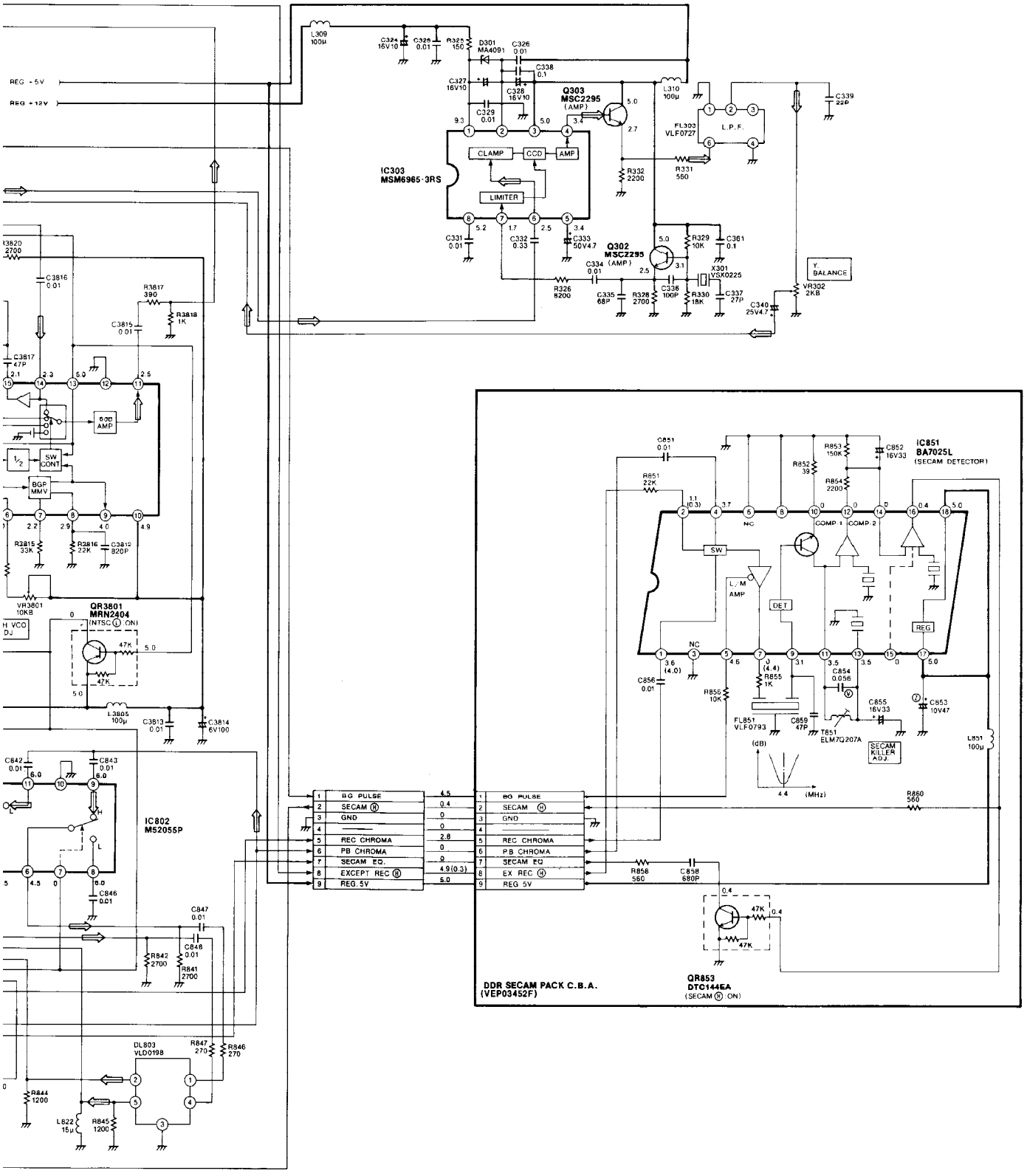
: IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE

: OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE

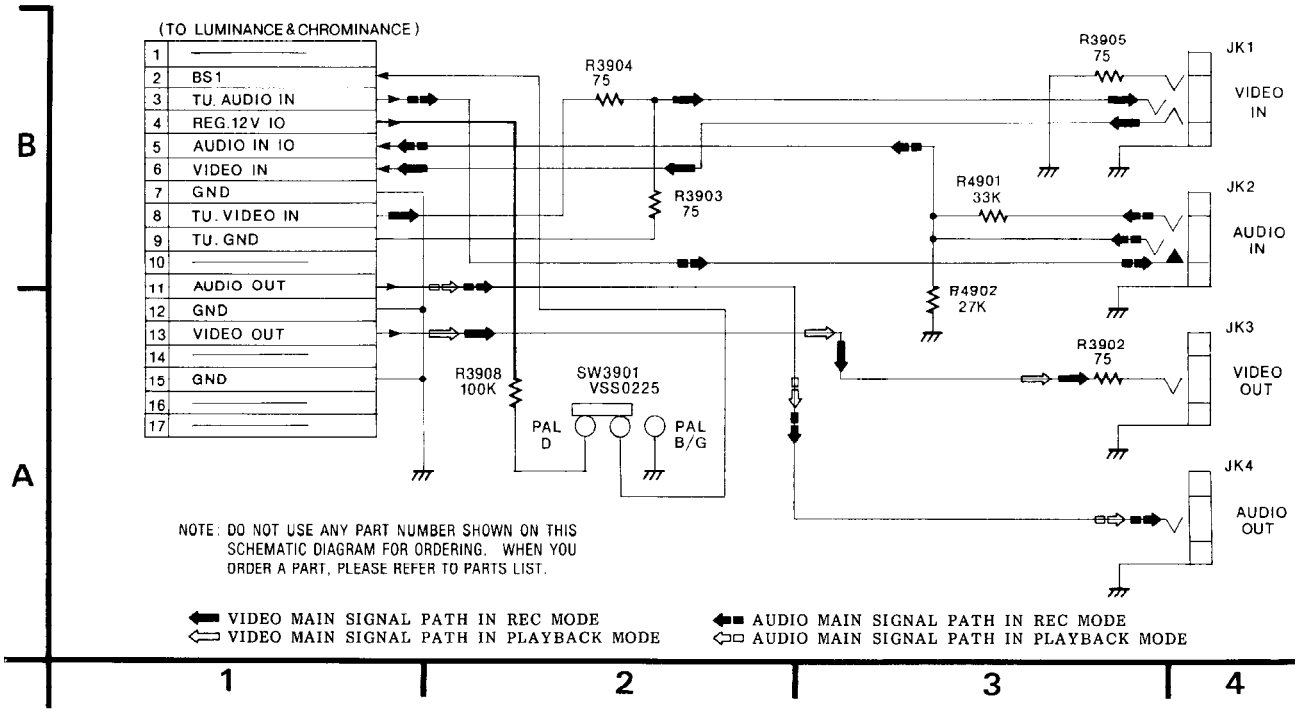
6 7 8 9 10 11


REG + 5V
REG + 12V
IC3801
M52063SP
IC802
M62055P
QR3802
MRN1404
(NTSC① ON)
QR3801
MRN2404
(NTSC② ON)
QR304
MRN1403
(NTSC① ON)
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ
APC P.C
AFC DET
SIDE LOCK
VCO
6dB
10dB / 6dB
C SEPA SENSE
ACC DET
DUBB SENSE
BURST DOWN
ACC AMP
BURST UP
PB AMP (12dB)
REC OUT AMP KILLER SW
GCA
6dB AMP
SW CONT
M.O MMV
IH VCO
P.O
BGP MMV
IH VCO ADJ
FL801
VLF0299
5.06MHz B.P.F
1.6MHz L.P.F
4.43MHz B.P.F
DL803
VLD0198
A-LINE
REG + 5V
REG +12V
REG + 5V

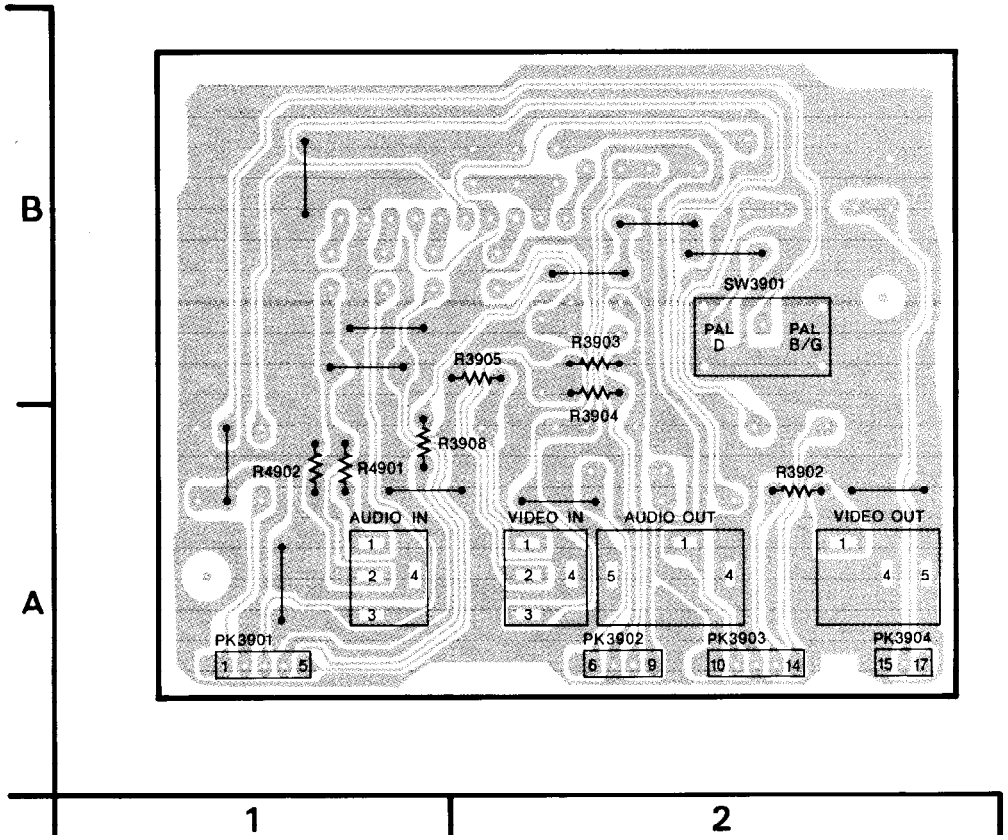
PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE



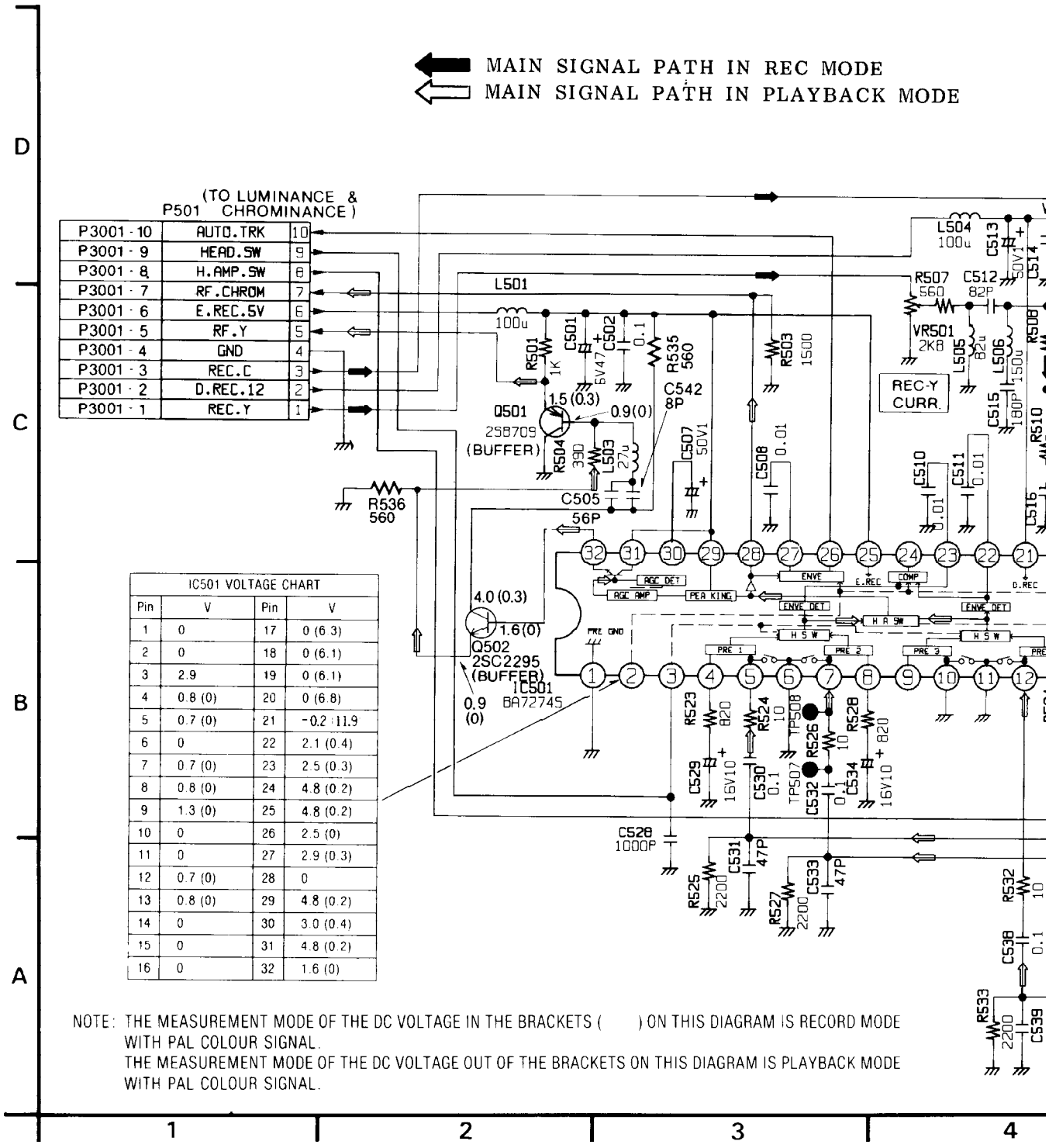
3-11. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM



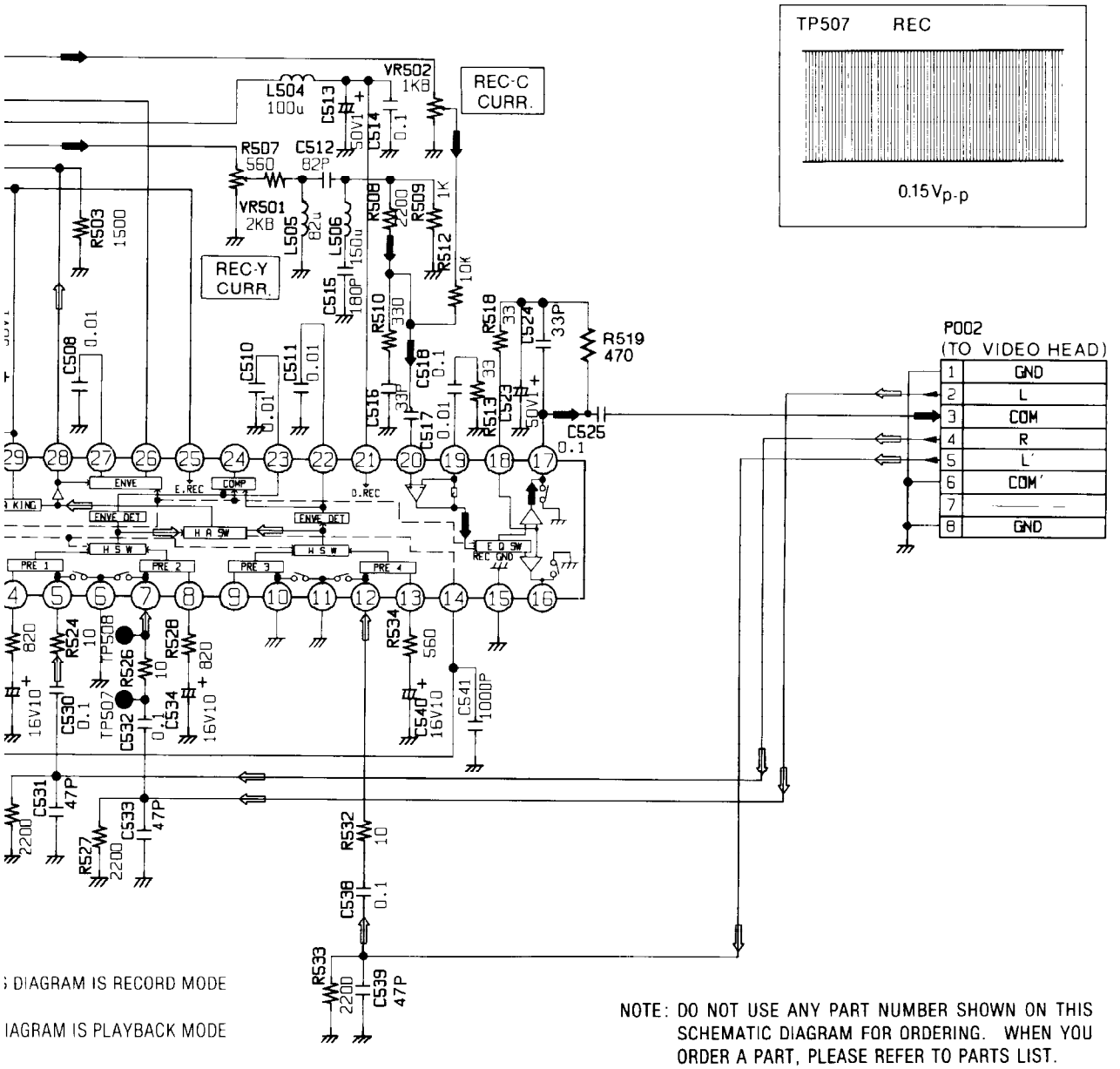
3-12. INPUT/OUTPUT PACK C.B.A. (VEP03593B)



3-13. HEAD AMP SCHEMATIC DIAGRAM



H IN REC MODE
H IN PLAYBACK MODE



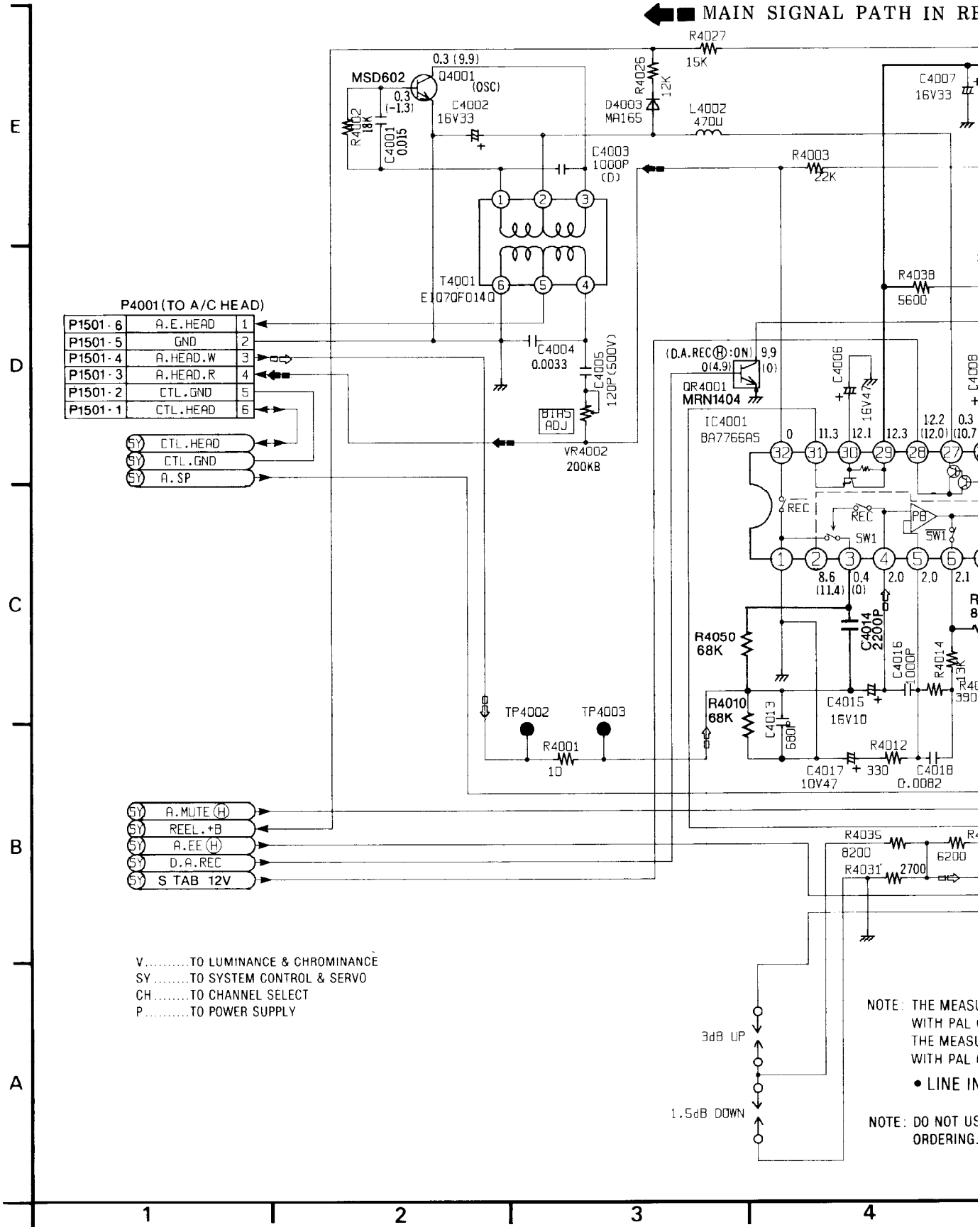
; DIAGRAM IS RECORD MODE

IAGRAM IS PLAYBACK MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

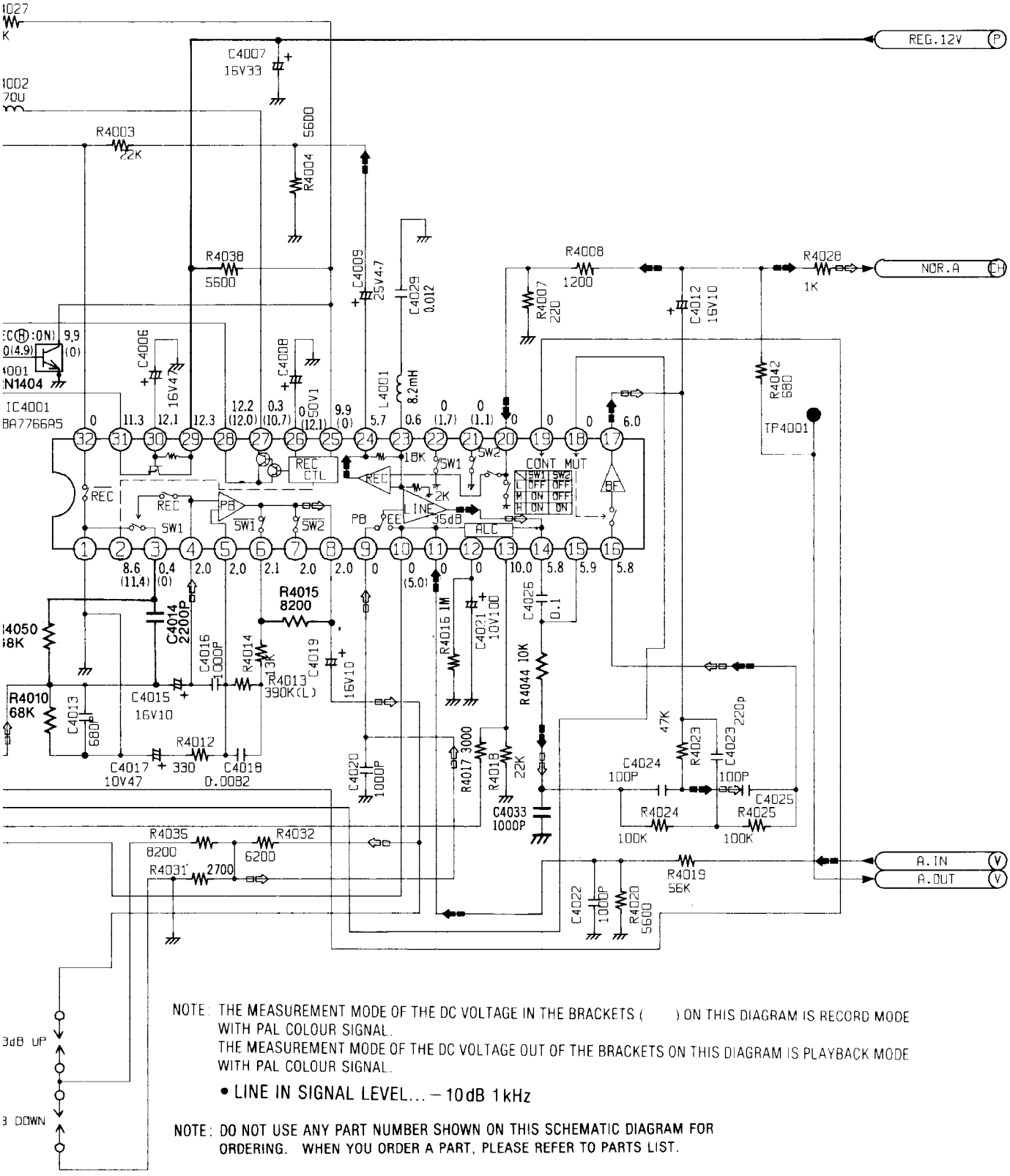
3 4 5 6

3-15. AUDIO SCHEMATIC DAGRAM



MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

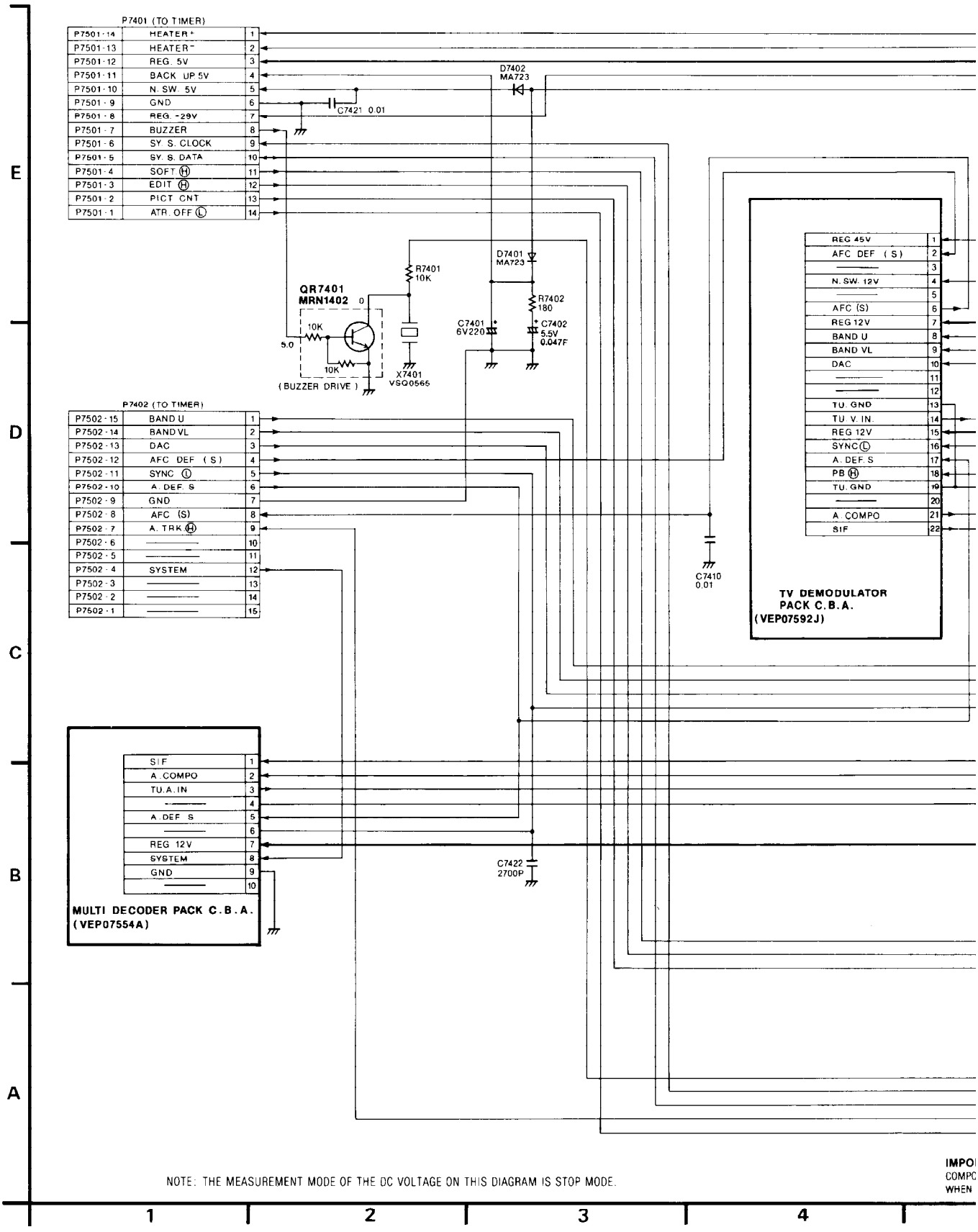


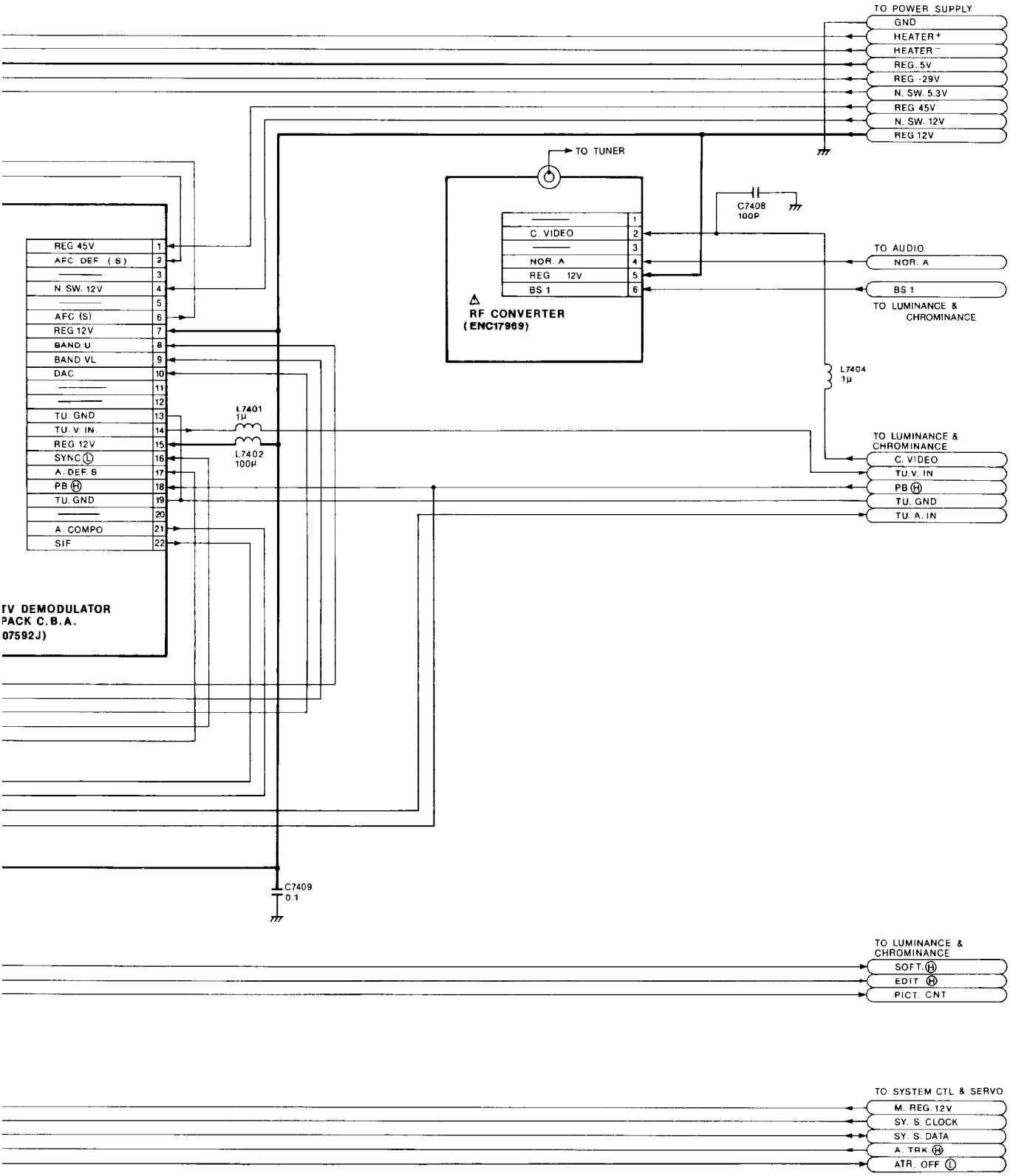
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

- LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-16. CHANNEL SELECT SCHEMATIC DIAGRAM

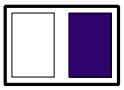




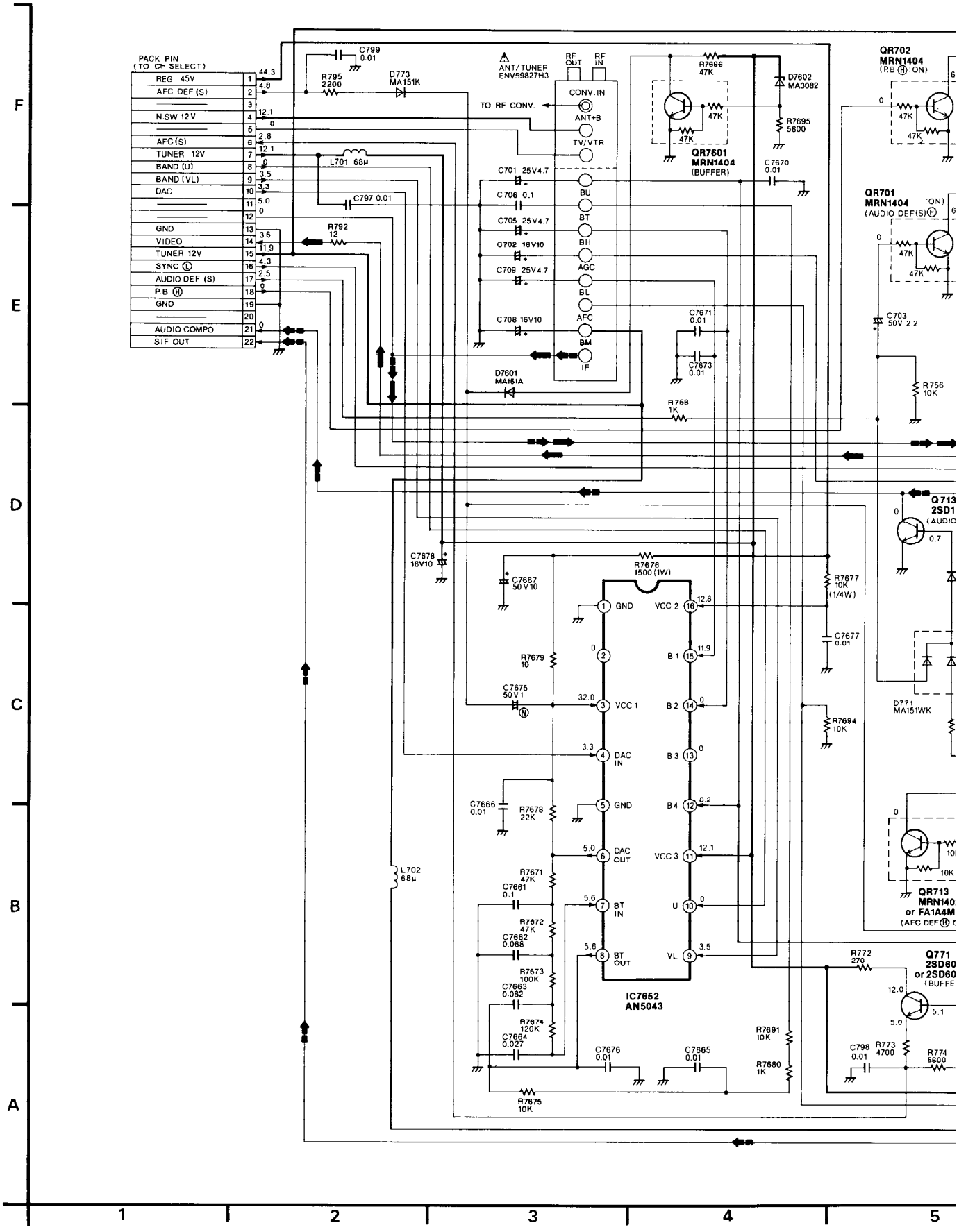
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

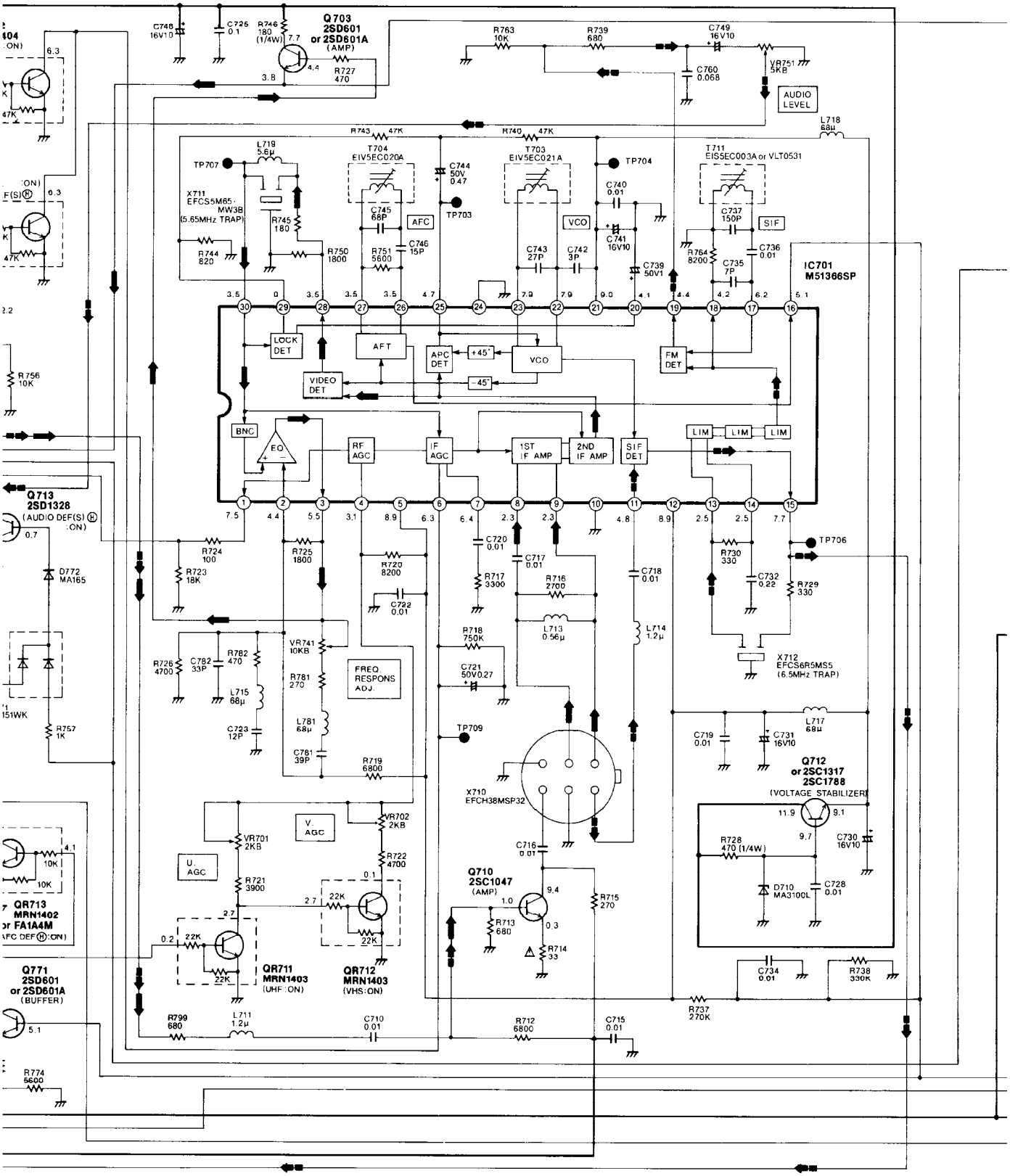
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4 5 6 7 8



3-17. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

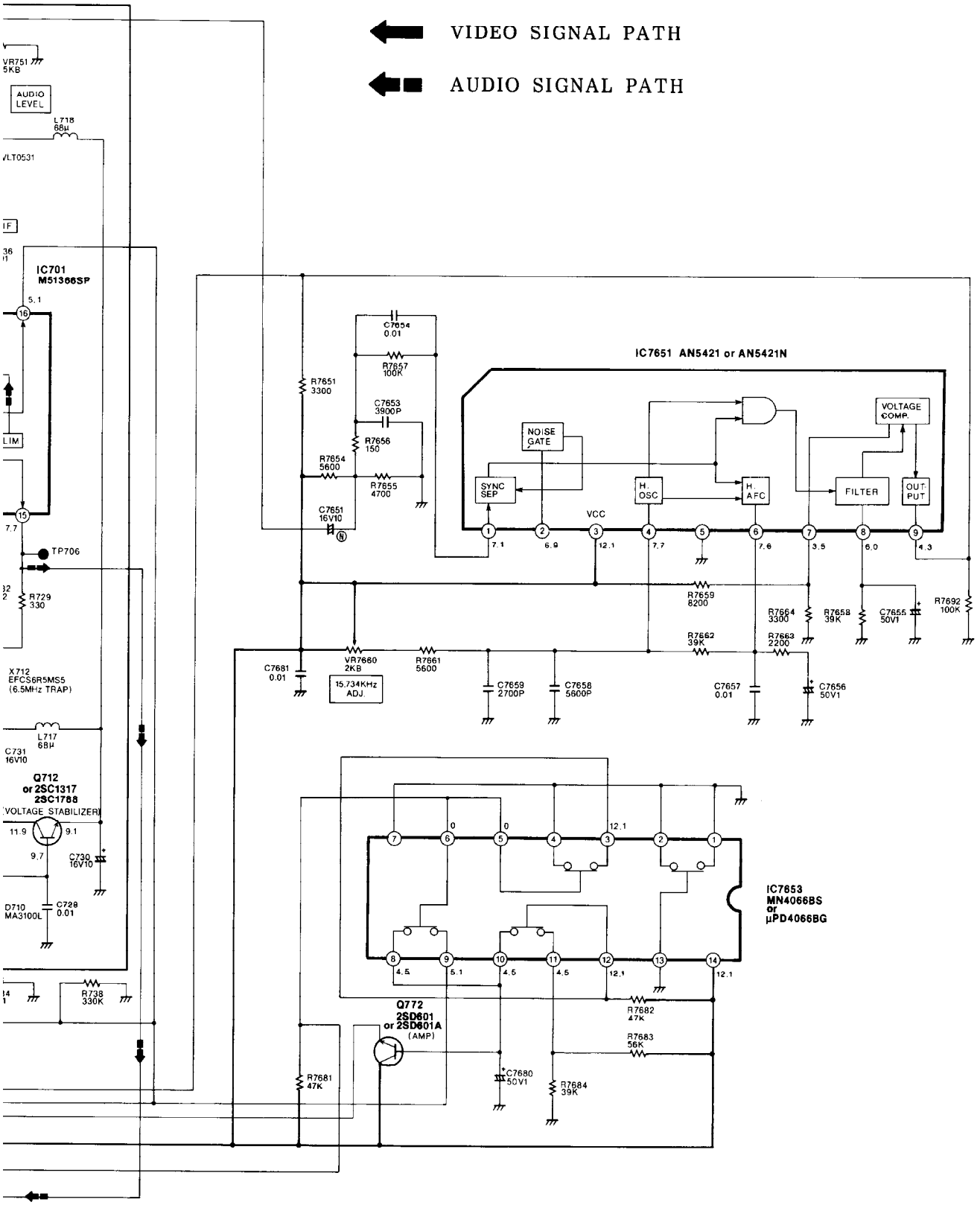




IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT

5 | 6 | 7 | 8 | 9

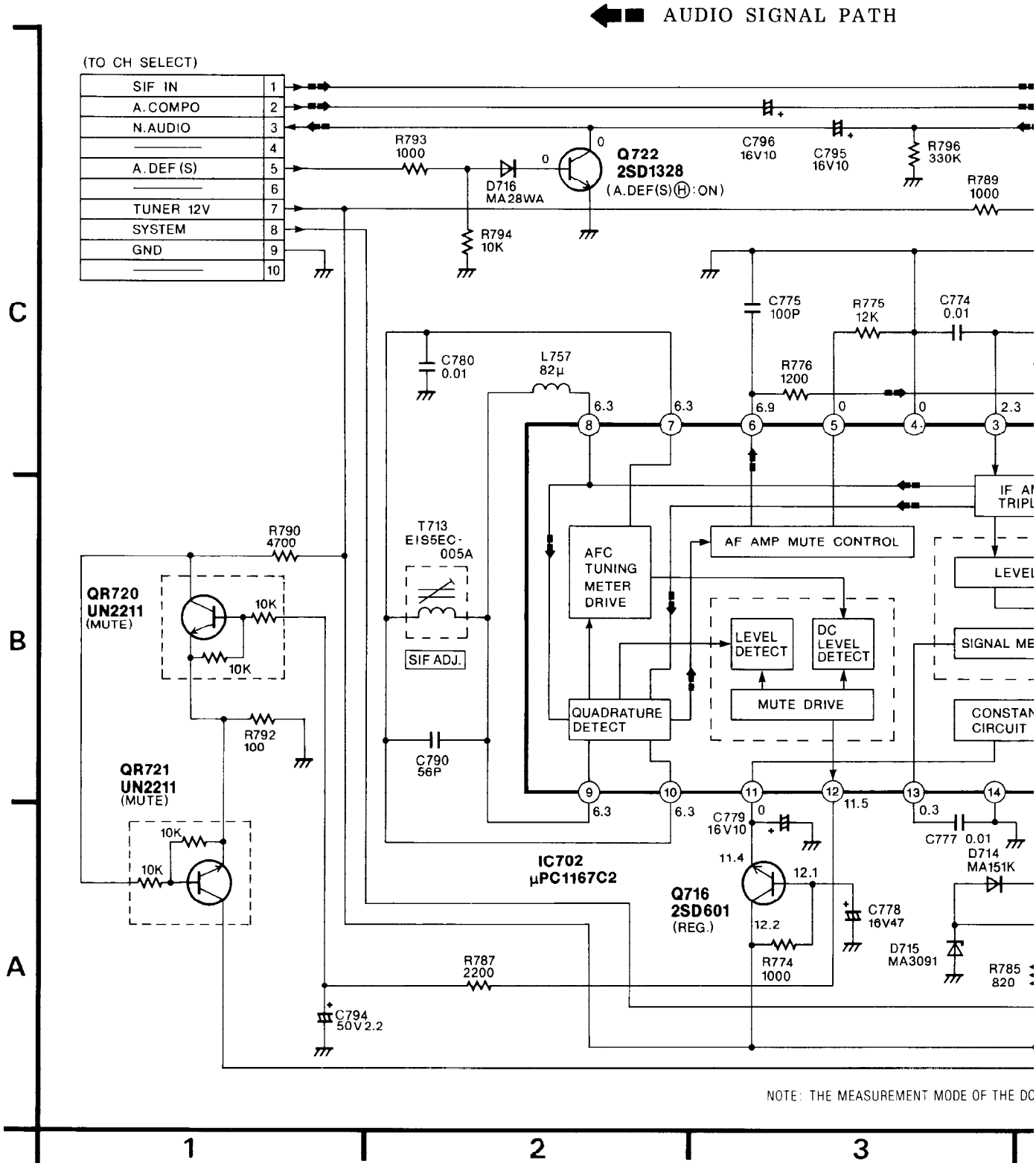


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

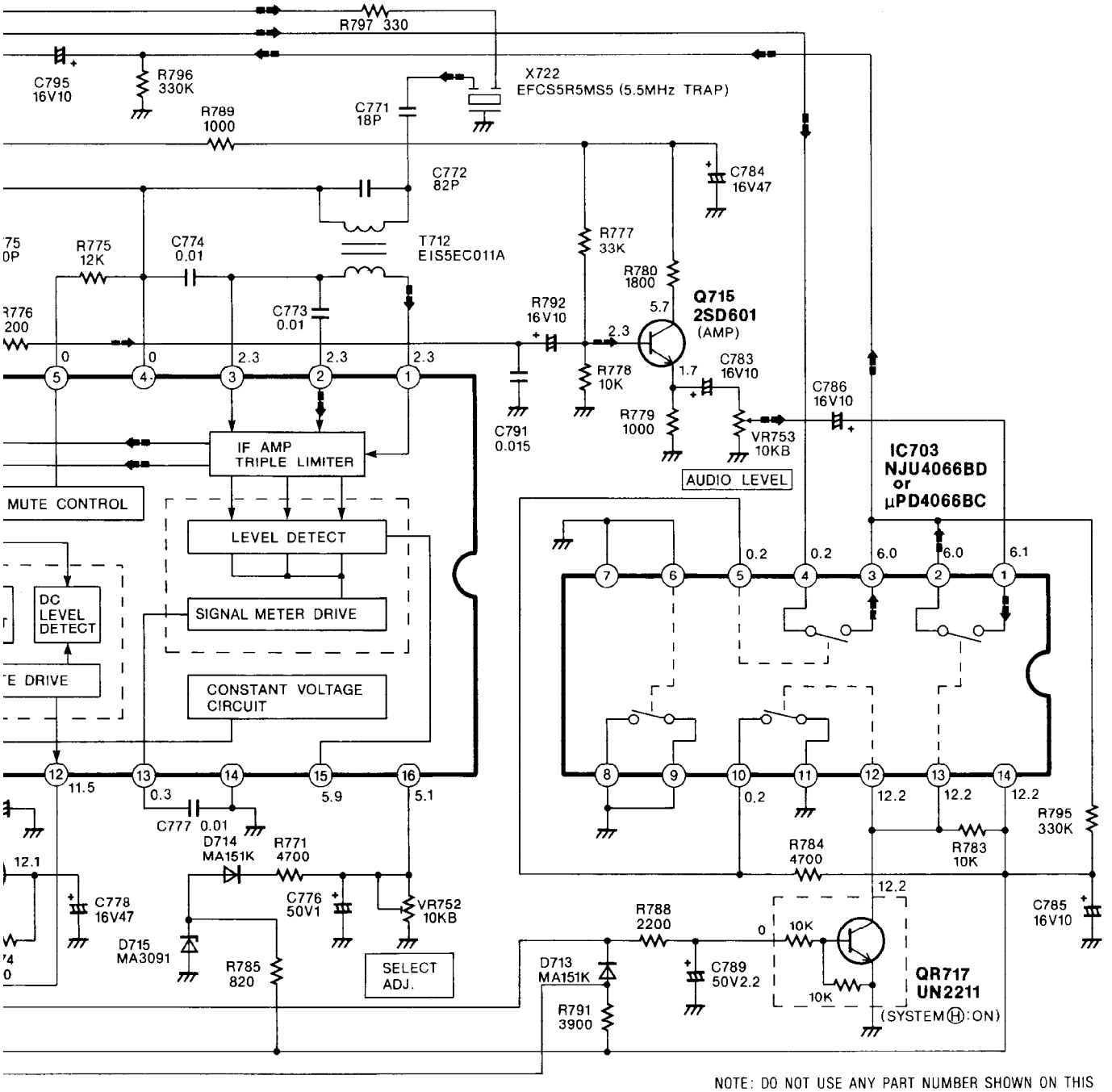
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

9 | 10 | 11 | 12 | 13

3-19. MULTI DECODER PACK SCHEMATIC DIAGRAM



NAL PATH



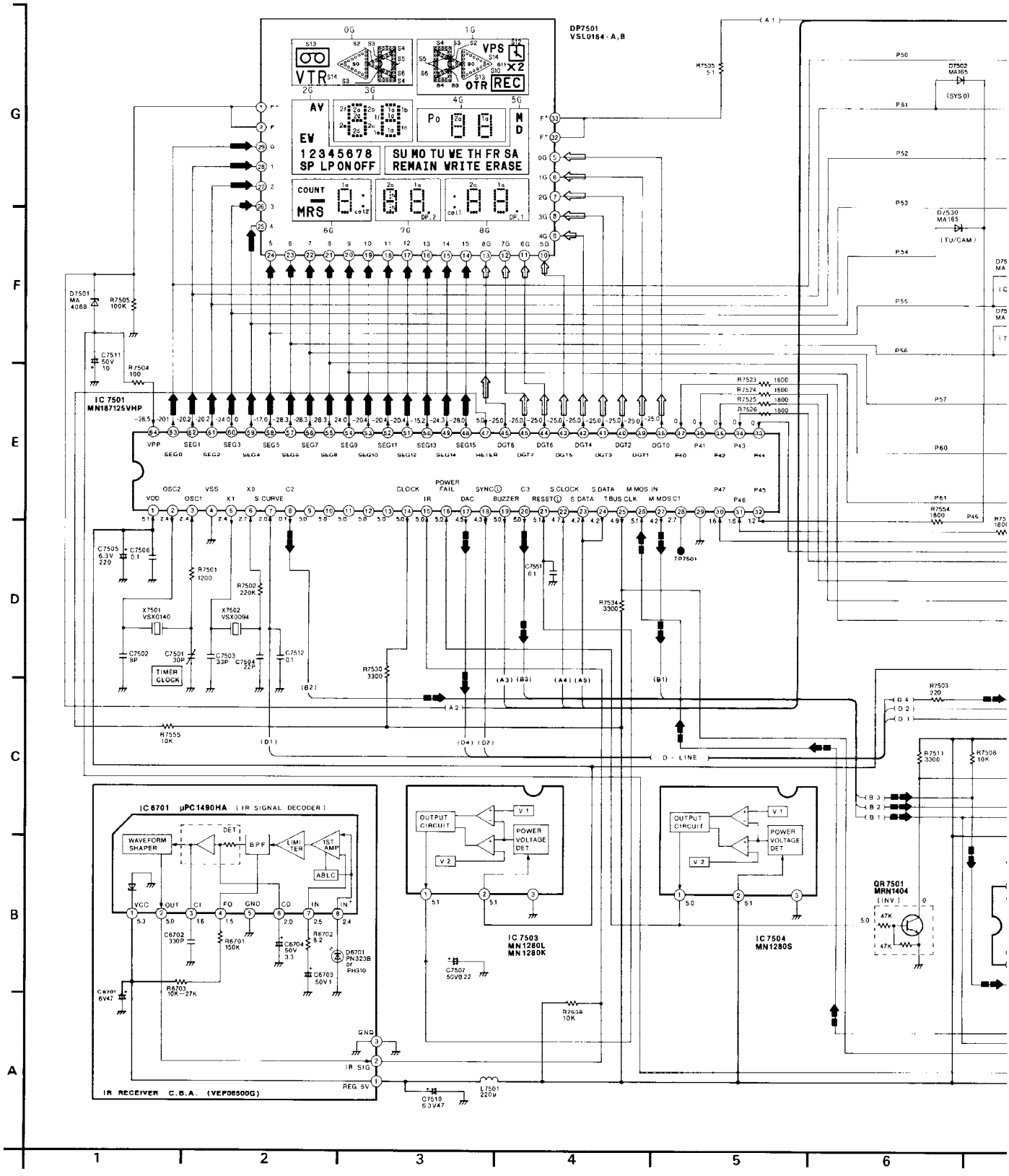
TE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

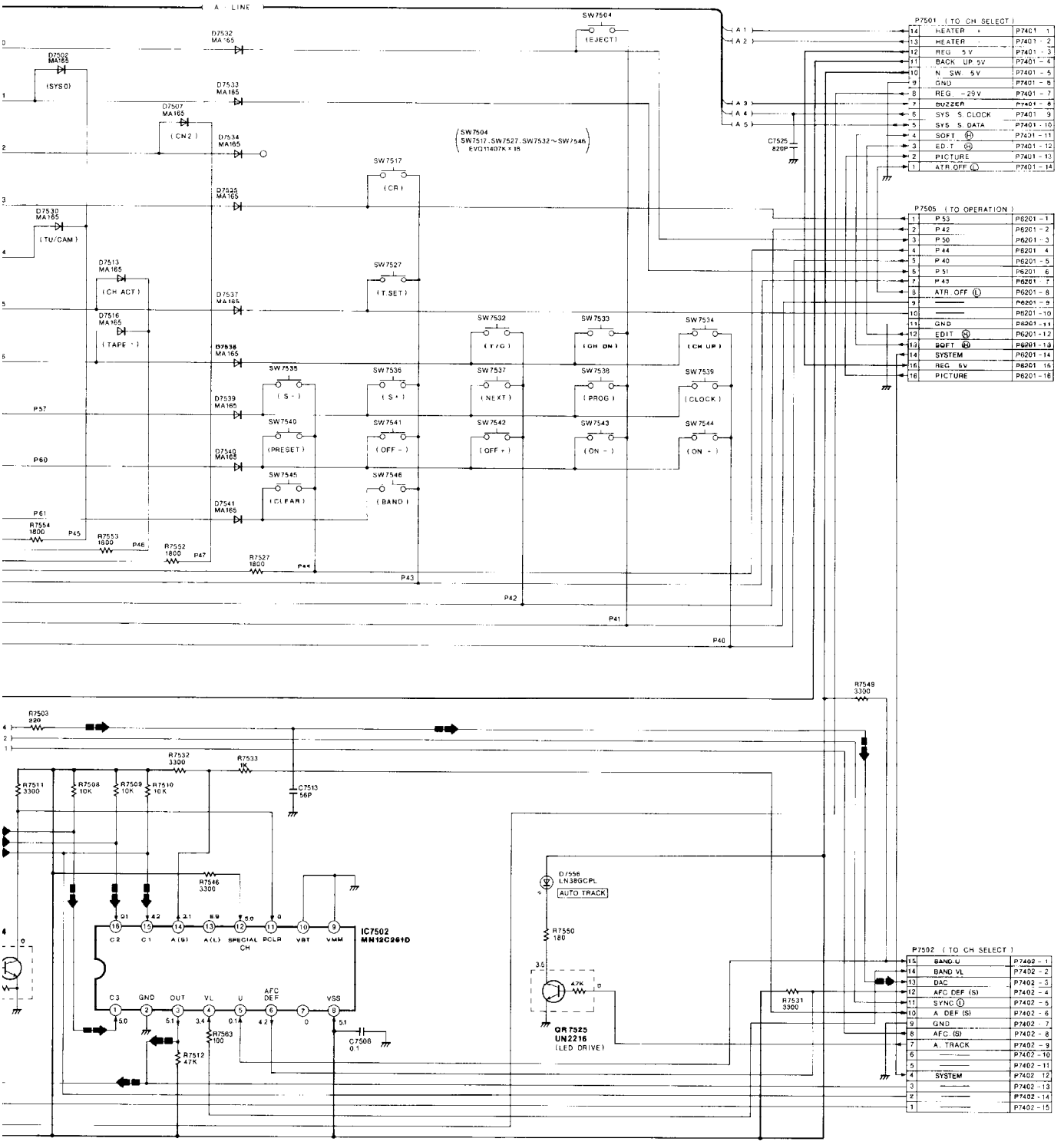
3 | 4 | 5

3-21. TIMER SCHEMATIC DIAGRAM

SEGMENT CONTROL SIGNAL



SIGNAL ⇦ GRID CONTROL SIGNAL ⇦■ TUNE CONTROL SIGNAL

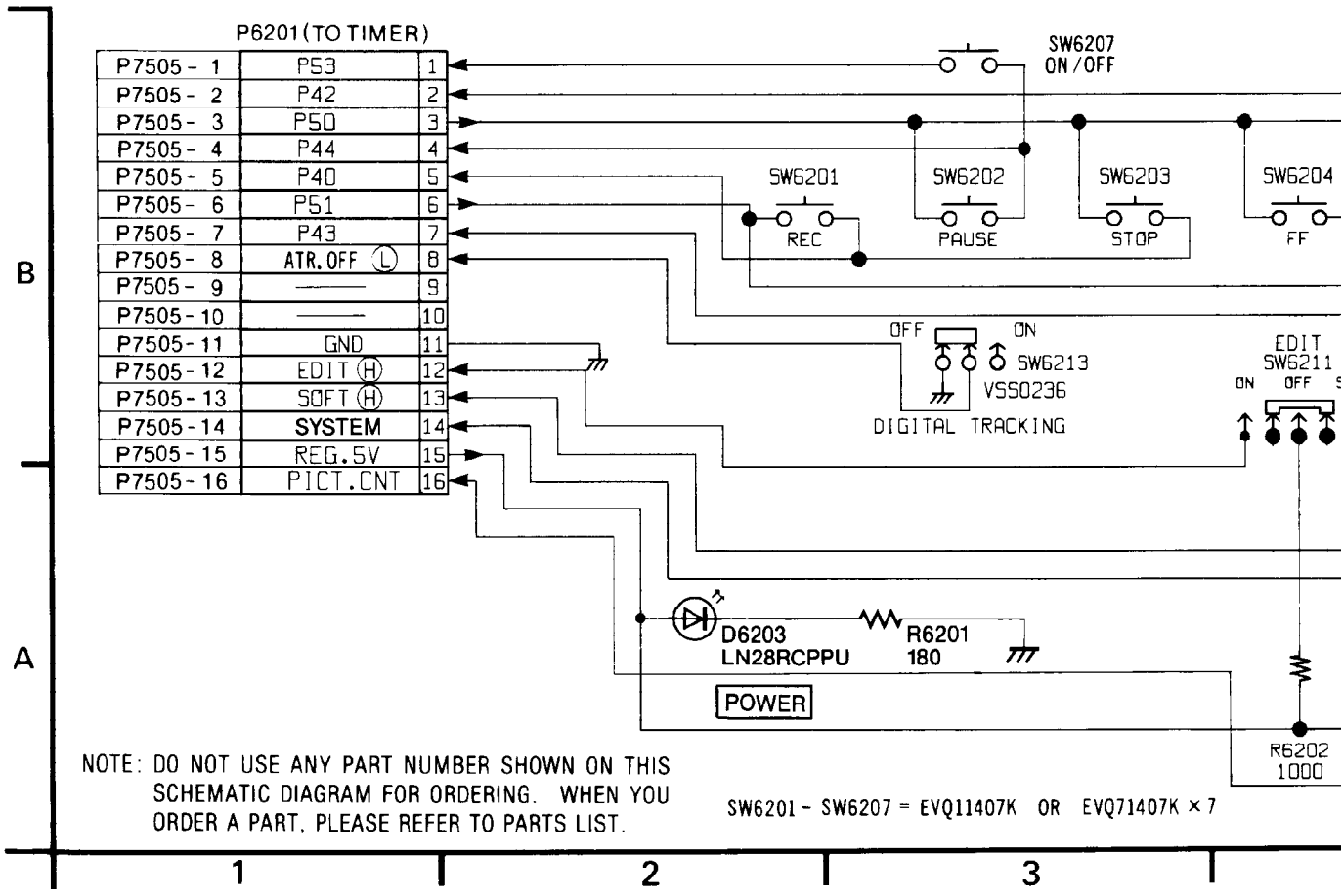


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

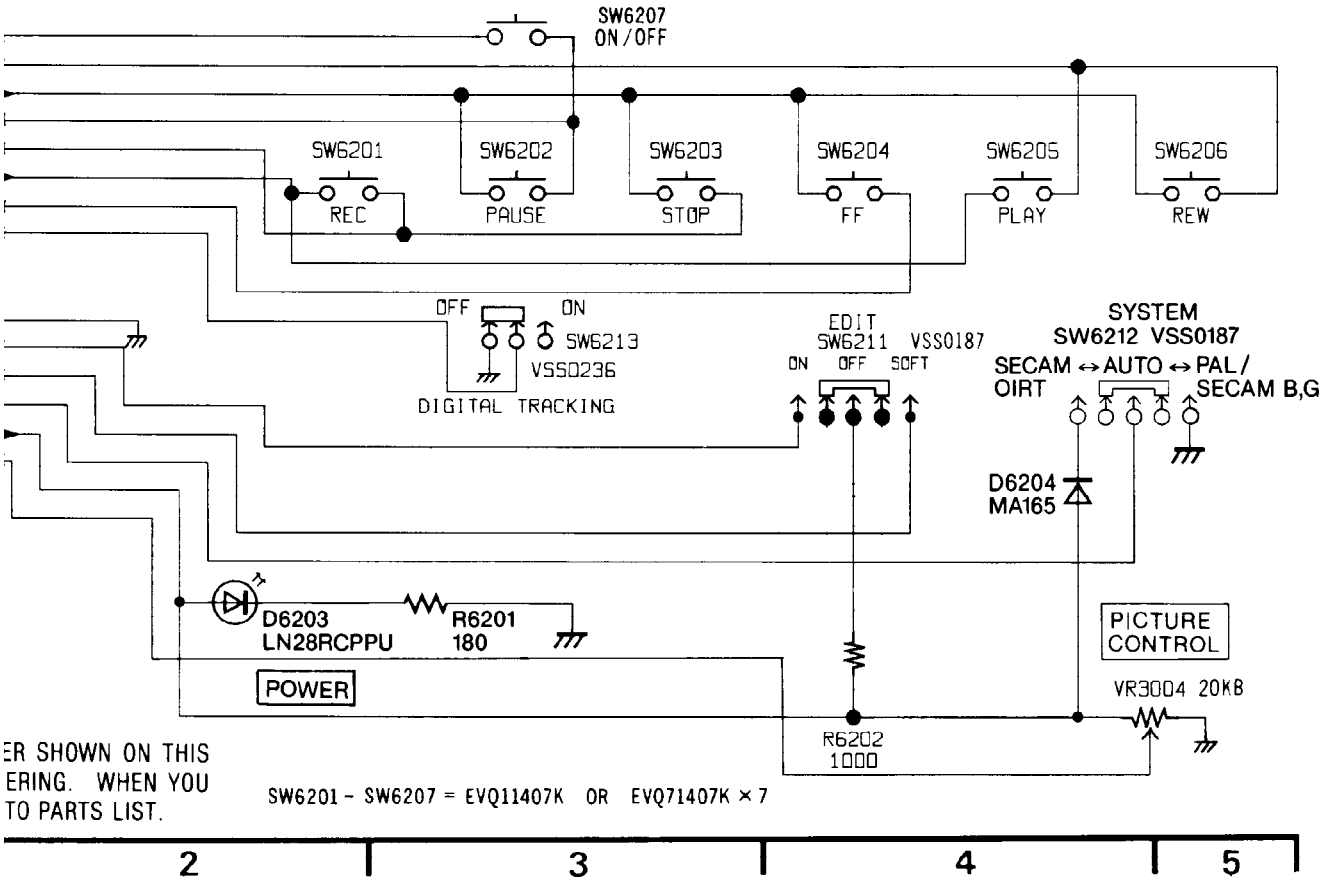
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

7 8 9 10 11 12

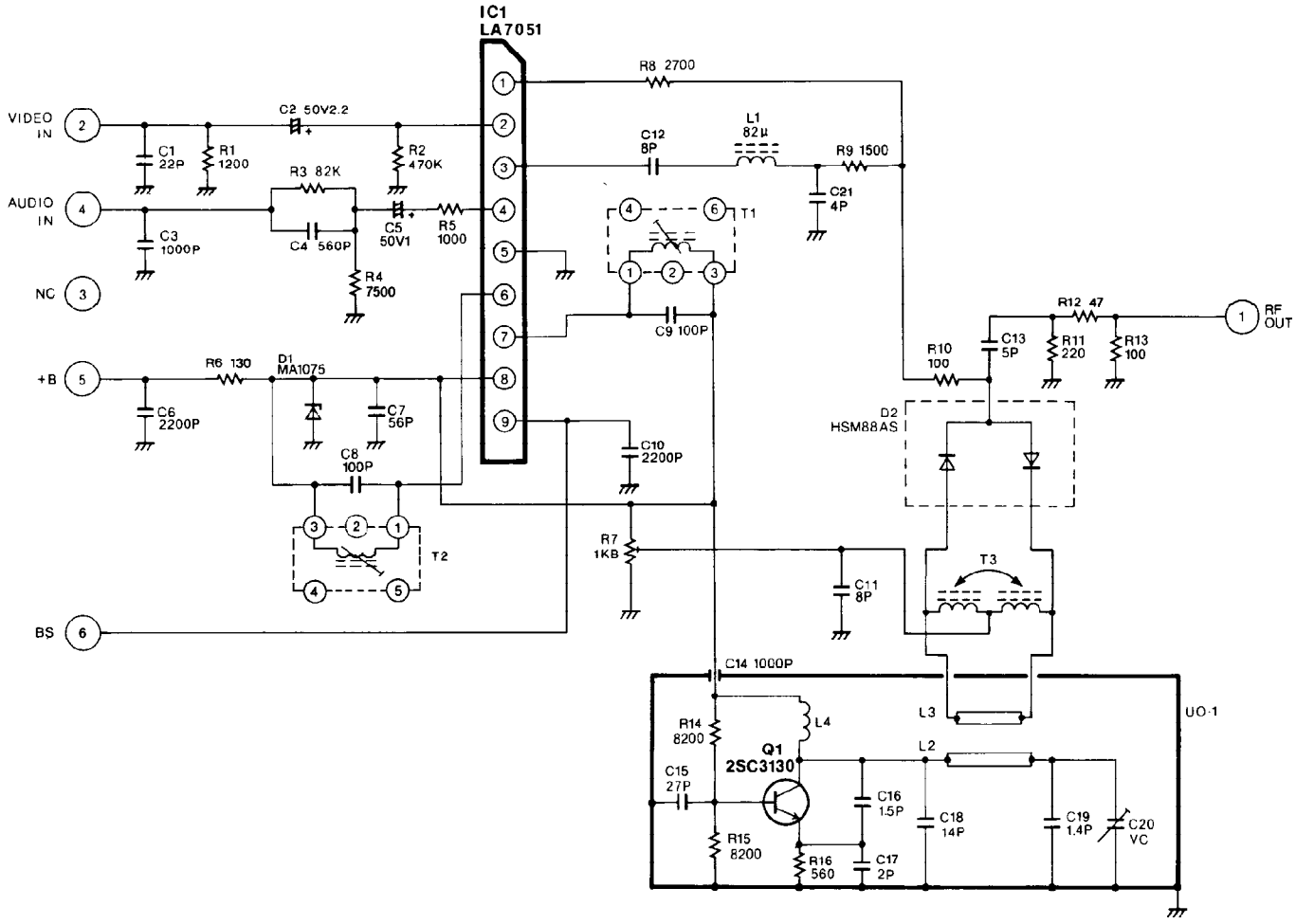
3-23. OPERATION SCHEMATIC DIAGRAM



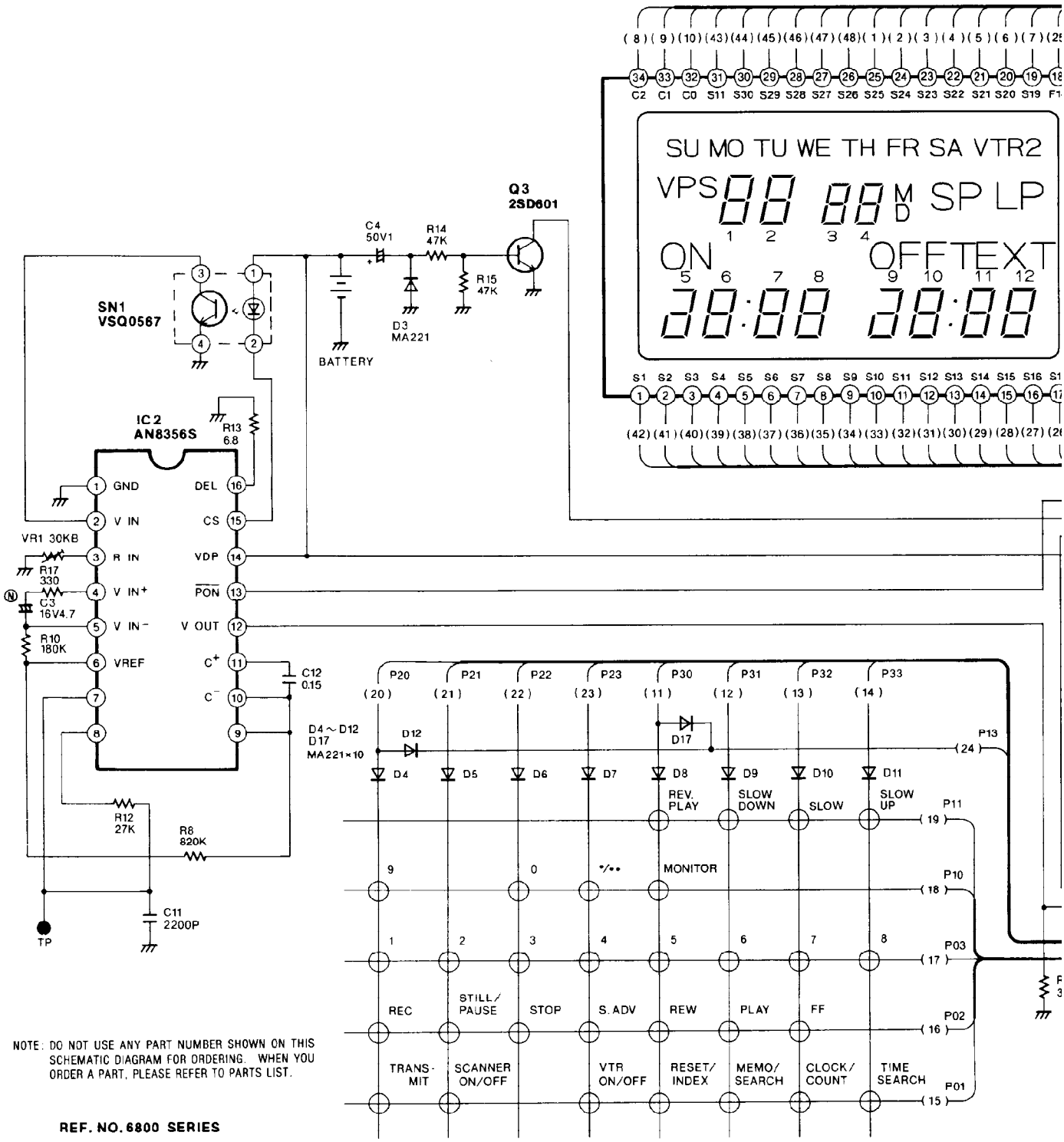
ATIC DIAGRAM



3-25. RF CONVERTER SCHEMATIC DIAGRAM (ENC17969)



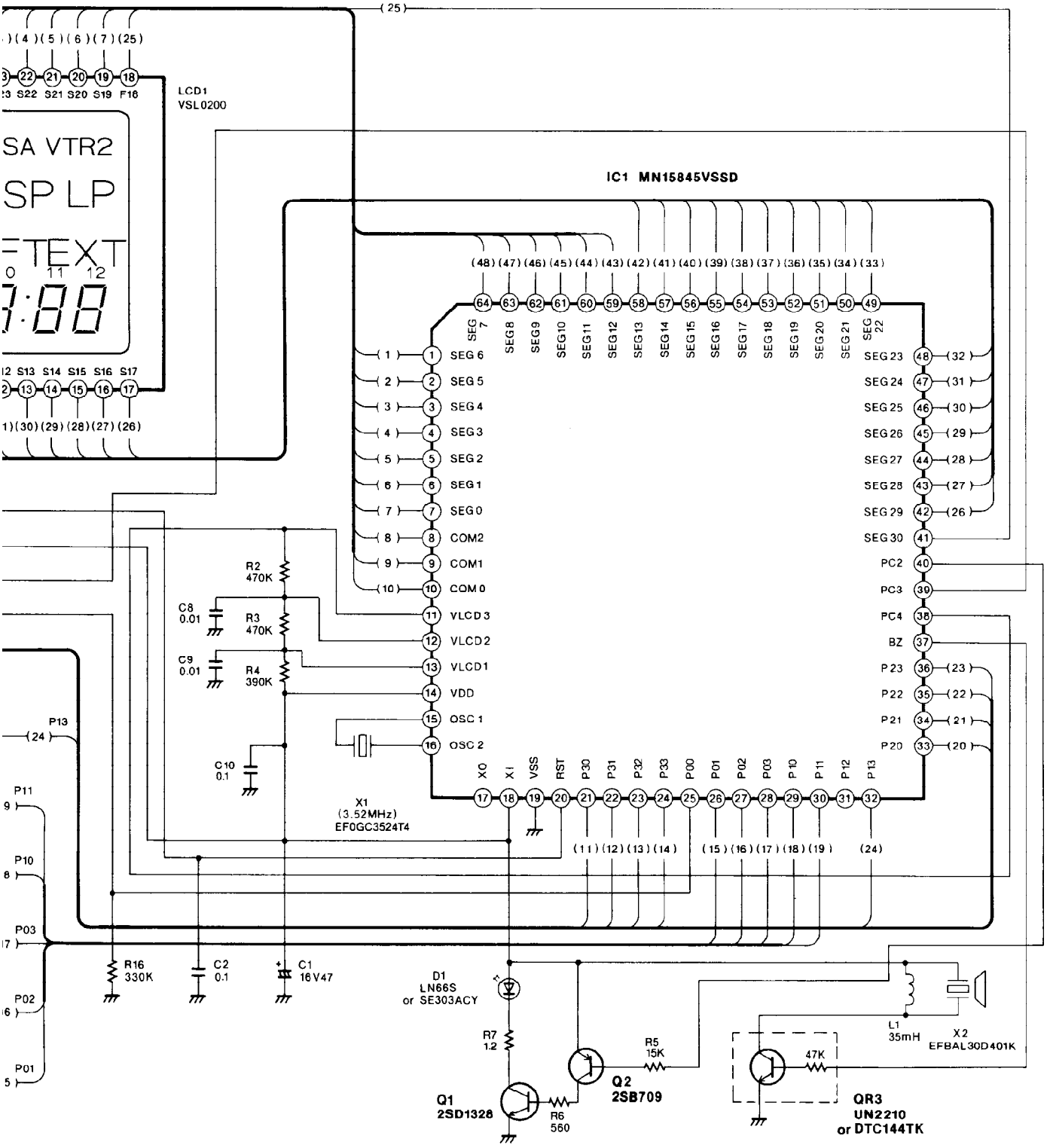
3-27. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) SCHEMATIC
—— UNIT NO. : VEQ1143 ——



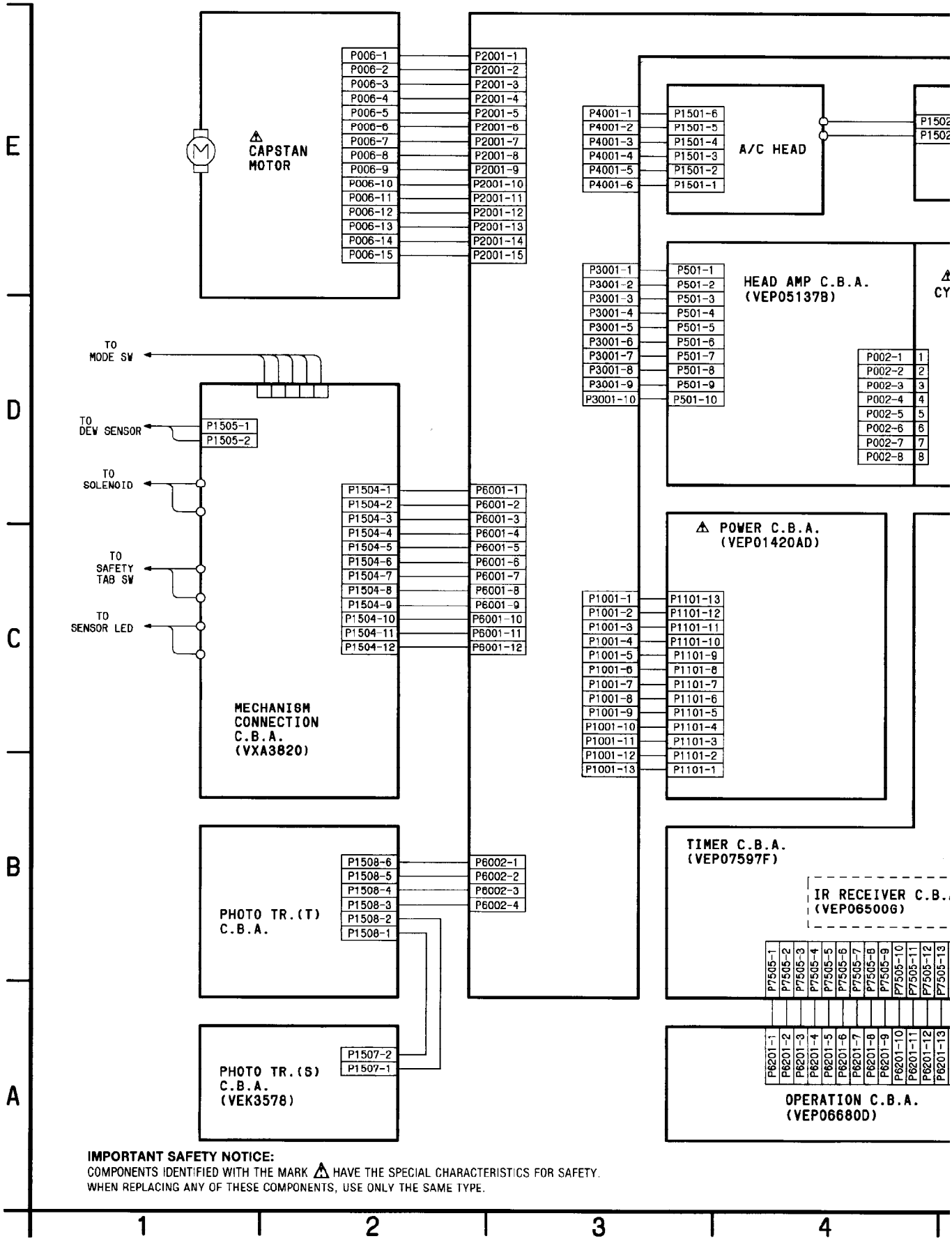
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

REF. NO. 6800 SERIES

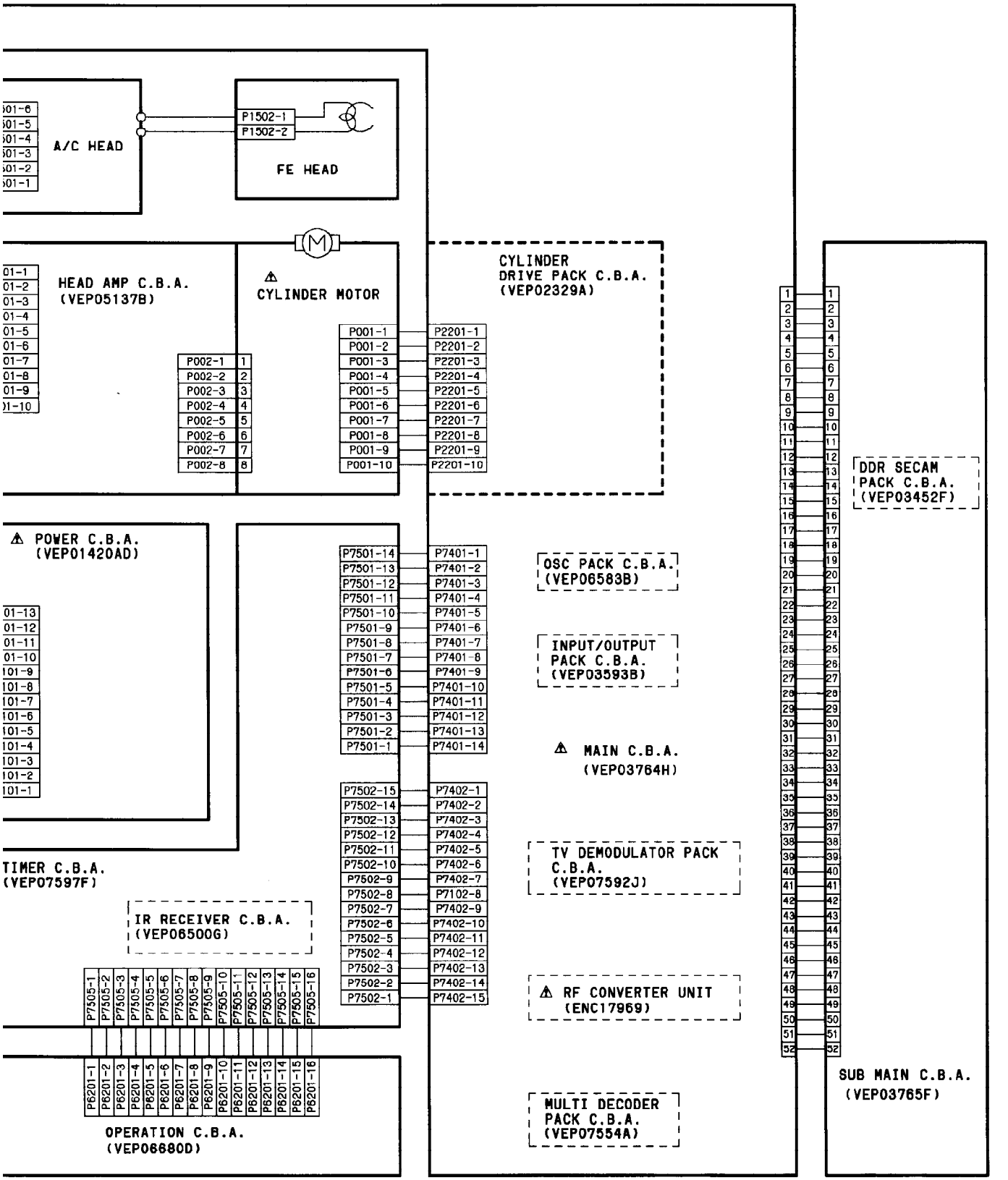
[EMATIC DIAGRAM



3-29. INTERCONNECTION SCHEMATIC DIAGRAM

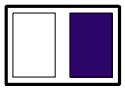


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

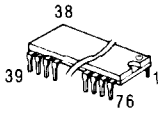


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

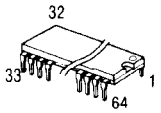
4 5 6 7



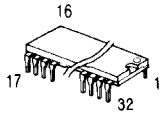
3-30. ICs & TRs INFORMATION



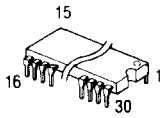
MN6740VCTK



MN187125VHP



BA7274S
BA7766AS



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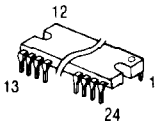
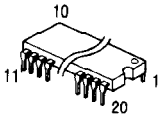
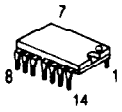


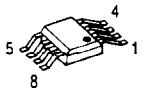
BA6435S



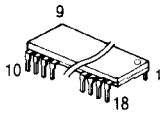
M52063SP



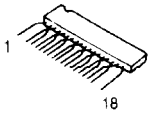
µPD4066BC



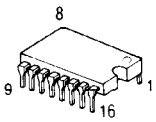
LM393PS



AN3814K



BA7025L



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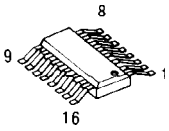
MN12C261D
µPC1167C2



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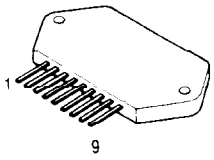
M52055P

AN5421



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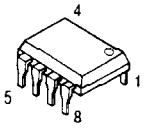

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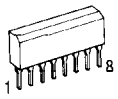
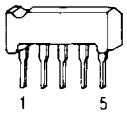
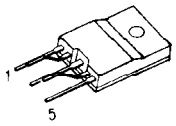


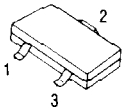
µPC1490HA



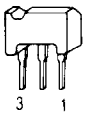
BA7004



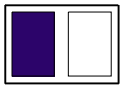
STRD1816

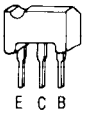


MN12821R

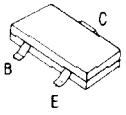


MN1280L
MN1280S

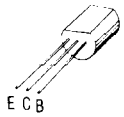




2SB1321
2SC2206
2SD638
2SD1330
2SD1991A
2SD1992
2SD1994
2SD1996



2SB709 MSB709
2SC2295 MSB710
2SD1328 MSC2295
2SD601 MSD601
2SD602



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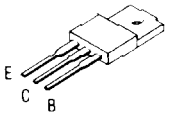
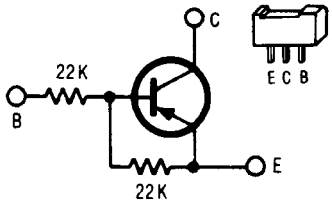
2SC1047



2SD1273



UN1112
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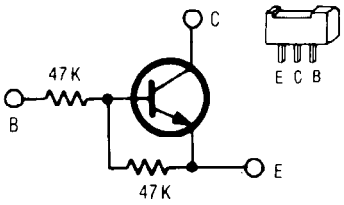
MRN2403



UN1213
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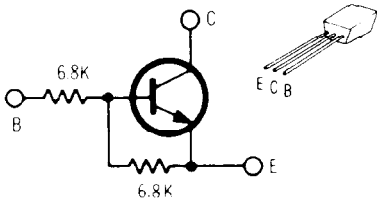
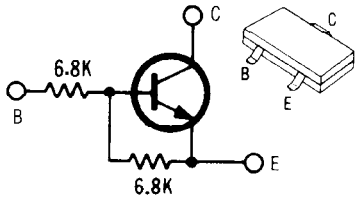


2SD1676



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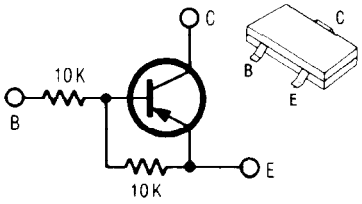

UN2111
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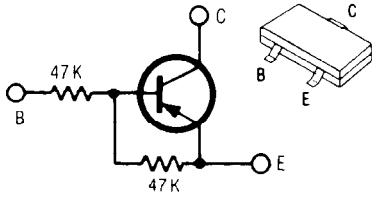

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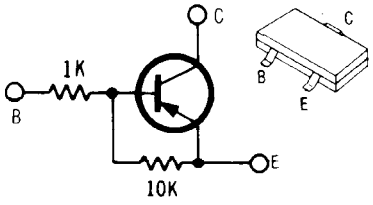
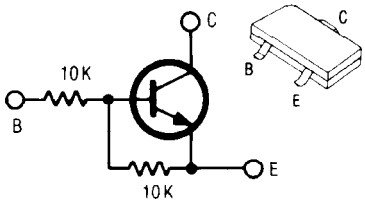
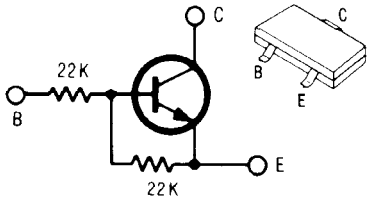


UN2119



UN2211
MRN1402
DTC114EK



UN2212
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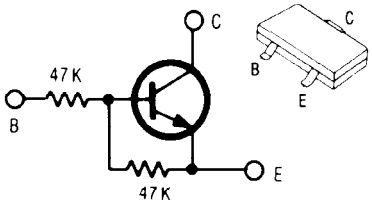

UN2213
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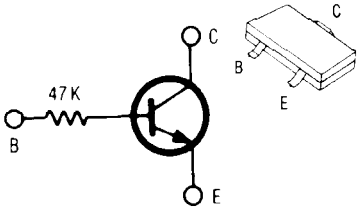
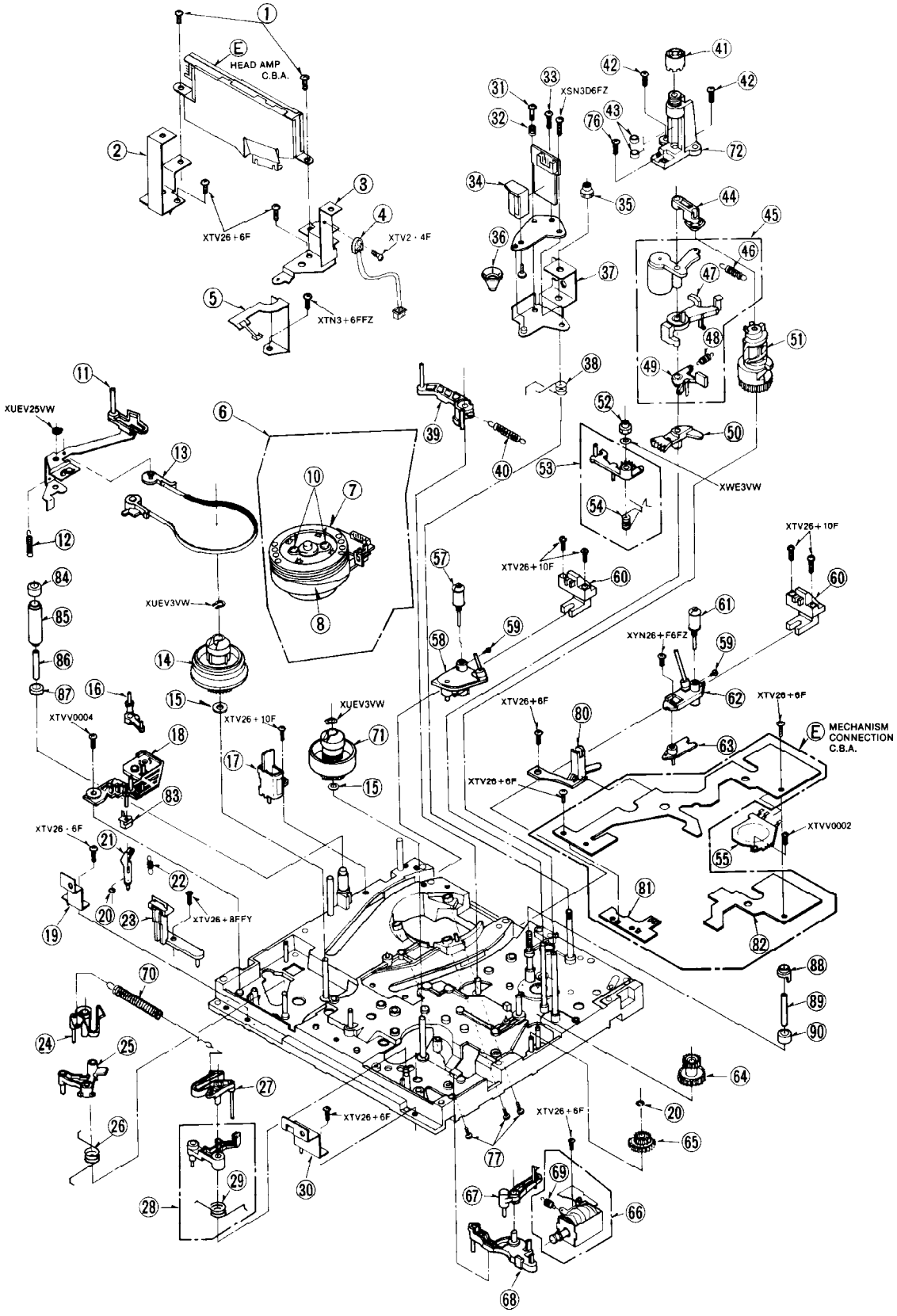


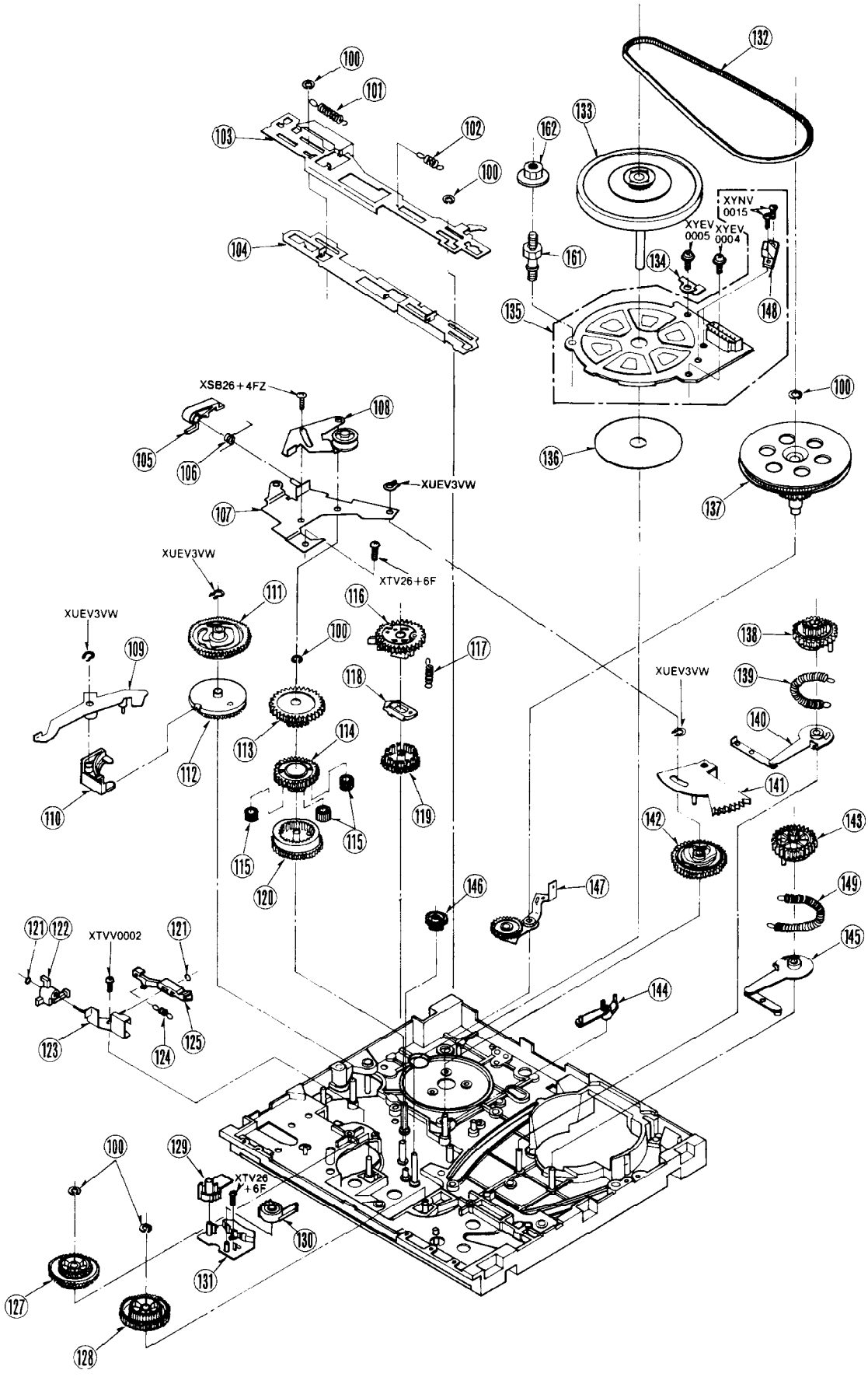
UN2216
DTC143TK

EXPLODED VIEWS & PARTS LIST

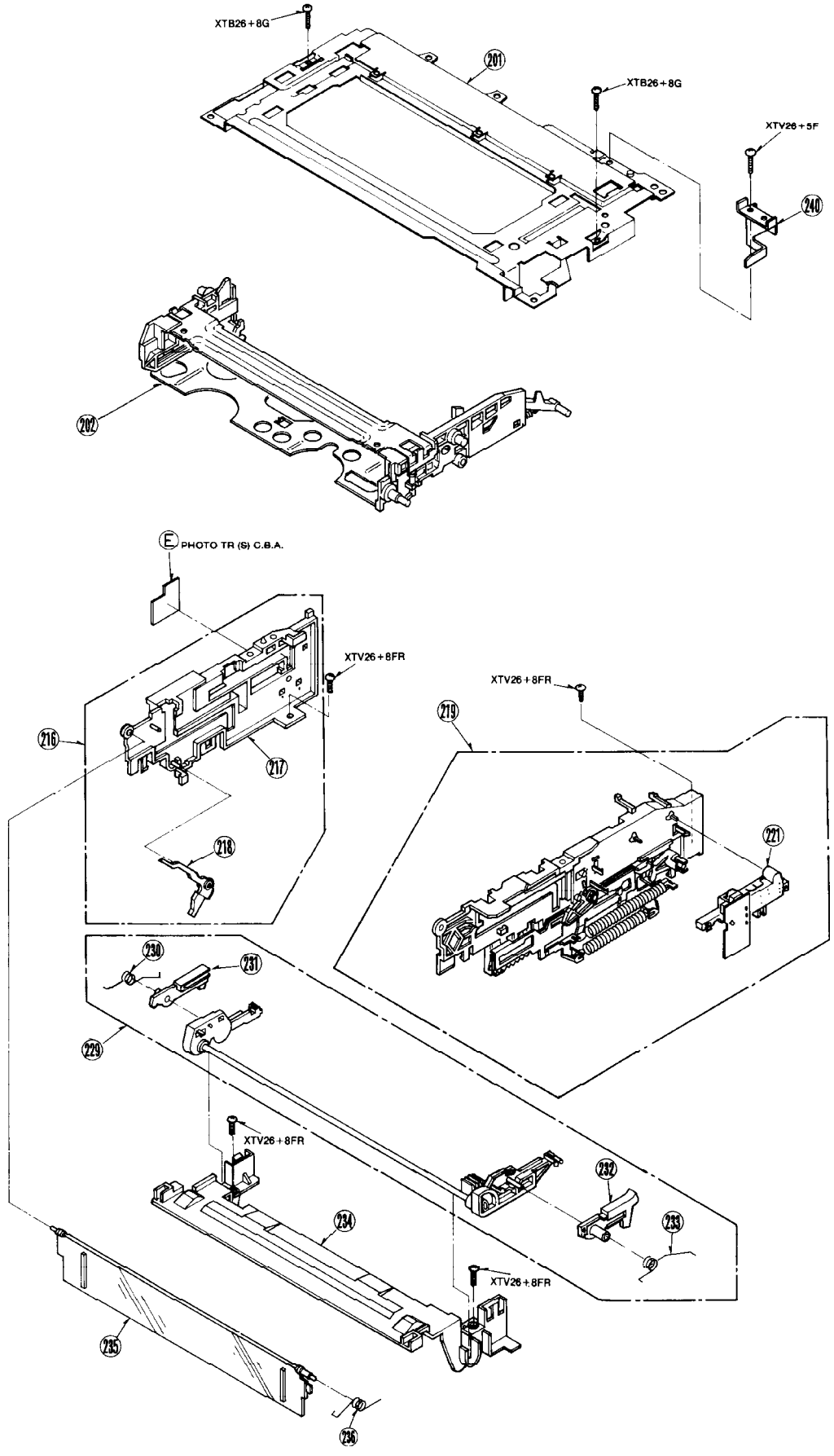
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



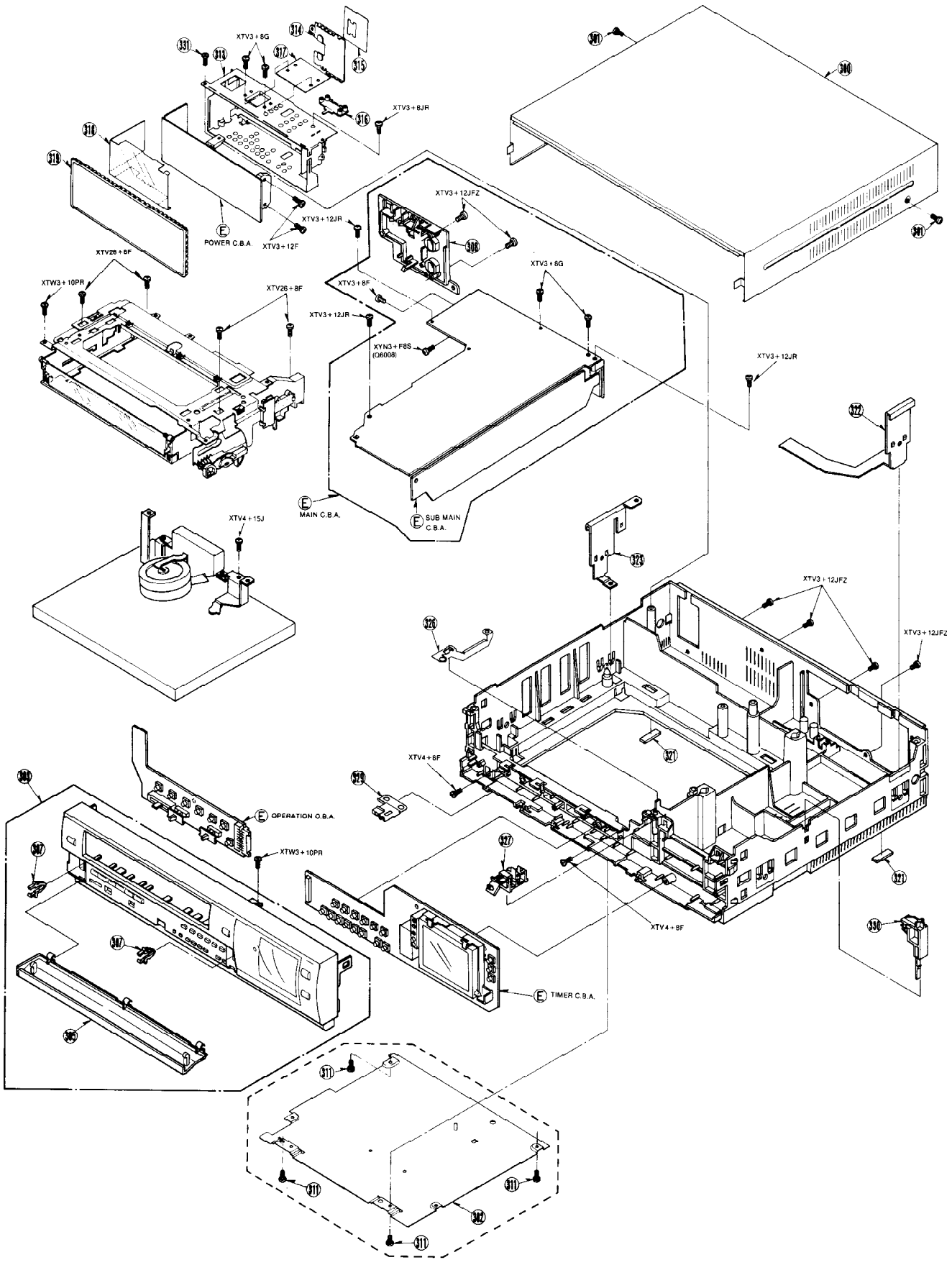
❷ CHASSIS PARTS SECTION (2)



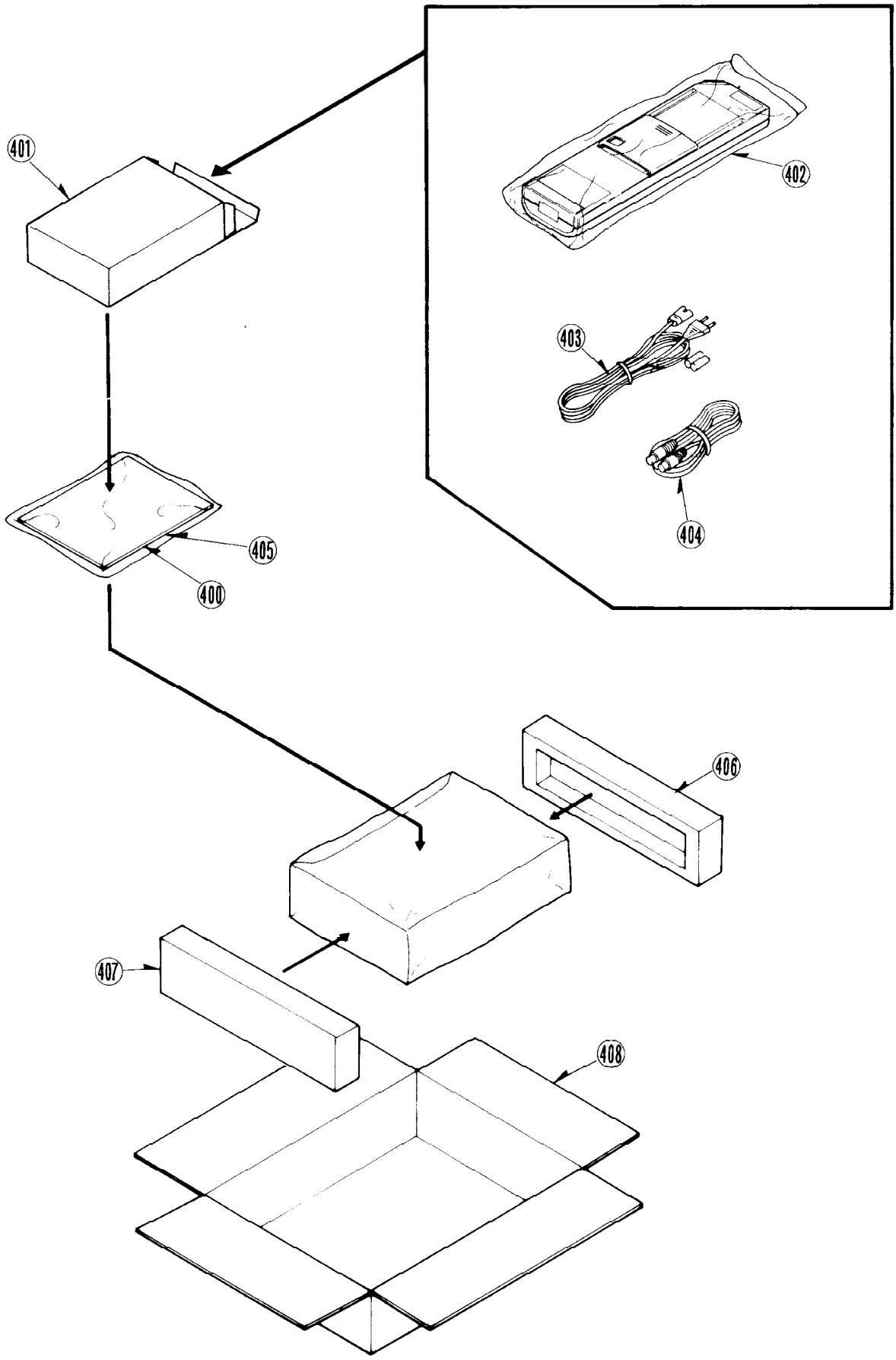
❸ CASSETTE UP MECHANISM SECTION



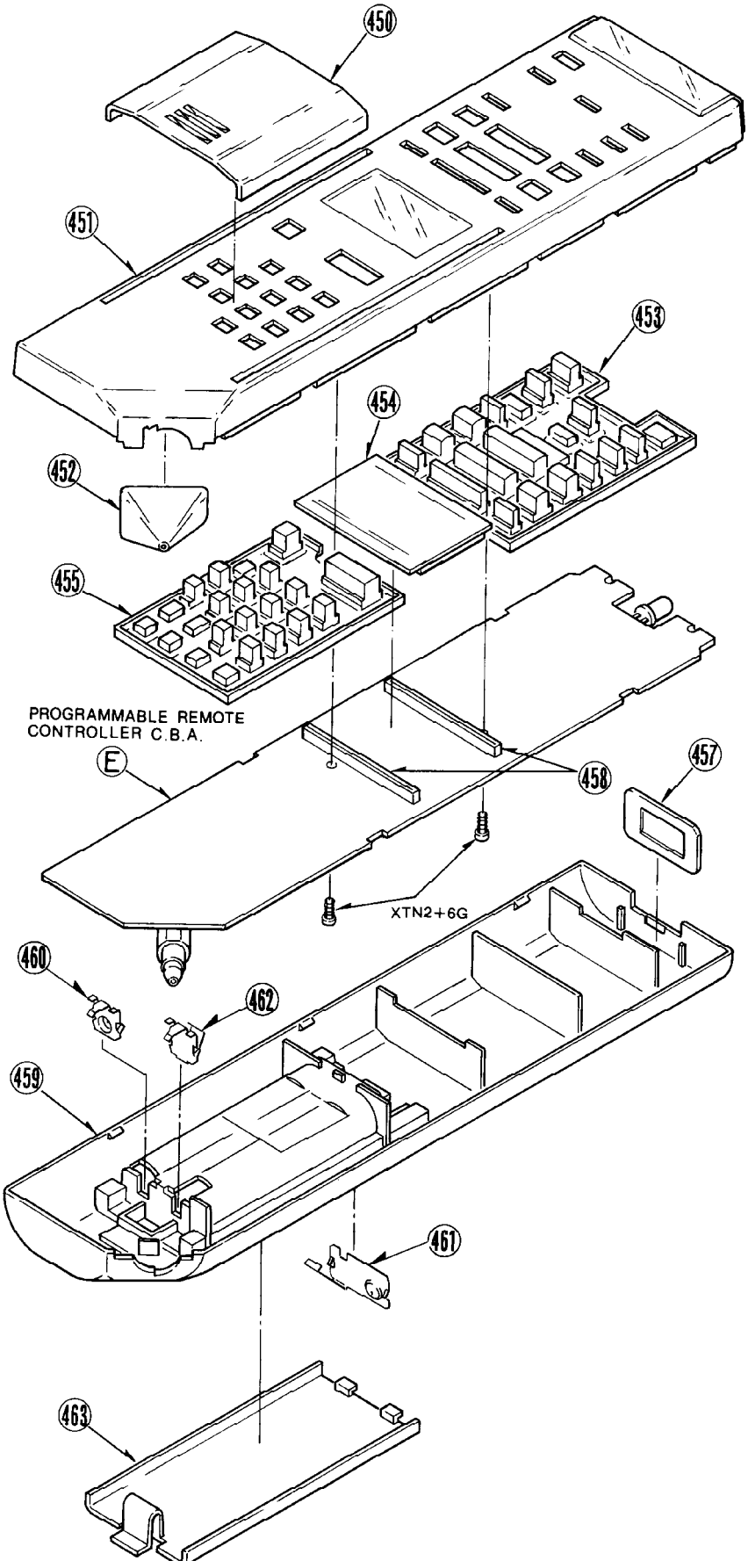
❹ CASING PARTS SECTION



❺ PACKING PARTS SECTION



❻ REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) UNIT



4-2. MECHANICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
********	NV-J30EE			
1(1)	VHD0141	HEAD AMP SET SCREW	2	
2(1)	VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)	VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
4(1)	VEK3185	DEW DETECTOR UNIT	1	
5(1)	VXS0082	EARTH PLATE UNIT	1	
6(1)	VEG0758	CYLINDER UNIT	1	<!>
7(1)	VEH0416	UPPER CYLINDER UNIT	1	<!>
8(1)	VJR0082	RT TERMINAL	1	
10(1)	VHD0425	UPPER CYLINDER SET SCREW	2	
11(1)	VXL1495	TENSION ARM (1) UNIT	1	
12(1)	VMB1563	TENSION SPRING	1	
13(1)	VXZ0267	TENSION BAND UNIT	1	
14(1)	VXR0185	SUPPLY REEL TABLE UNIT	1	
15(1)	VMX1171	REEL WASHER (0.5mm)	2	
15(1)	VMX1239	REEL WASHER (0.3mm)	2	
15(1)	VMX1238	REEL WASHER (0.2mm)	2	
16(1)	VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)	VBS0038	FE HEAD	1	
18(1)	VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)	VMA6895	MOUNT ANGLE (L)	1	
20(1)	VMX1079	CUT WASHER	2	
21(1)	VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)	VMB1582	TENSION RELEASE SPRING	1	
23(1)	VES0489	SAFETY SW	1	
24(1)	VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)	VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)	VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)	VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)	VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)	VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)	VMA6896	MOUNT ANGLE (R)	1	
31(1)	VHD0322	ADJUST SCREW	1	
32(1)	VMB1251	ADJUST SPRING	1	
33(1)	VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)	VBR0132	A/C HEAD	1	
35(1)	VHN0063	M4 NYLON NUT	1	
36(1)	VHN0110	ADJUST NUT	1	
37(1)	VMA7831	HEAD BASE	1	
38(1)	VMB1567	A/C HEAD SPRING	1	
39(1)	VXL1657	SUB LOADING ARM (1) UNIT	1	
40(1)	VMB1566	SUB POST SPRING	1	
41(1)	VXQ0006	THRUST SCREW UNIT	1	
42(1)	VHD0317	HOUSING SCREW	2	
43(1)	VMX1033	OIL SEAL	2	
44(1)	VMX1353	PINCH CAM CAP	1	
45(1)	VXL1858	PRESSURE ROLLER UNIT	1	
46(1)	VMB1941	PIN PRESSURE SPRING	1	
47(1)	VML2232	PINCH PRESSURE ARM	1	
48(1)	VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)	VML1874	PINCH LIFT ARM	1	
50(1)	VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)	VDG0421	PINCH CAM	1	
52(1)	VHD0045	M3 NYLON NUT	1	
53(1)	VXL1485	P5 UNIT	1	
54(1)	VMB1554	P5 SPRING	1	
55(1)	VSS0175	MODE SW	1	
57(1)	VXP0863	ROLLER POST UNIT	1	
58(1)	VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)	VHD0133	ROLLER POST SCREW	2	
60(1)	VMD0910	POST STOPPER	2	
61(1)	VXP0764A	ROLLER POST UNIT	1	
62(1)	VXA3876	INCLIND BASE(T)(1)UNIT	1	
63(1)	VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)	VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)	VDG0332	CONNECTION GEAR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
66(1)	VXA3735	SOLENOID UNIT	1	
67(1)	VXA2692	KICK ROD UNIT	1	
68(1)	VML1849	SOLENOID LEVER (1) UNIT	1	
69(1)	VMB1553	KICK ROD SPRING	1	
70(1)	VMB1958	MAIN BRAKE SPRING	1	
71(1)	VXR0188	TAKE UP REEL TABLE UNIT	1	
72(1)	VXD0101	HOUSING UNIT	1	
76(1)	VHD0374	HOUSING SCREW	1	
77(1)	VHD0342	CYLINDER SCREW	3	
80(1)	VXA3520	LED HOLDER UNIT	1	
81(1)	VMA7844	REINFORCEMENT PLATE (F)	1	
82(1)	VMA7845	REINFORCEMENT PLATE (R)	1	
83(1)	VMB1733	LEAF SPRING	1	
84(1)	VMX1088	SUPPLY UPPER LIMITER	1	
85(1)	VDP1072	SUPPLY ROLLER	1	
86(1)	VMX1581	P1 COLLAR	1	
87(1)	VMX1533	SUPPLY ROLLER LIMITER	1	
88(1)	VMX1544	P4 UPPER LIMITER	1	
89(1)	VMX1568	P4 SLEEVE	1	
90(1)	VMX1534	P4 LOWER LIMITER	1	
100(2)	VMX1079	CUT WASHER	6	
101(2)	VMB1583	TAKE UP SOFT BRAKE RELEASE ARM SPRING	1	
102(2)	VMB1560	MAIN LEVER SPRING	1	
103(2)	VXA3509	MAIN LEVER (1) UNIT	1	
104(2)	VMM0215	SUB LEVER	1	
105(2)	VXL1873	SS BRAKE ARM UNIT	1	
106(2)	VMB1588	SS BRAKE SPRING	1	
107(2)	VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)	VXA3516	TENSION ROLLER UNIT	1	
109(2)	VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)	VML1861	DETENT ARM	1	
111(2)	VDG0574	MAIN CAM GEAR	1	
112(2)	VDG0343	SUB CAM GEAR	1	
113(2)	VDG0348	CENTRE GEAR	1	
114(2)	VDG0422	RETAINER GEAR	1	
115(2)	VDG0345	PLANET GEAR	3	
116(2)	VDG0547	CLUTCH DISK	1	
117(2)	VMB1558	CLUTCH SPRING	1	
118(2)	VDG0350	LOCK SLIDE GEAR	1	
119(2)	VDG0335	DRIVE DISK	1	
120(2)	VDG0342	RING GEAR	1	
121(2)	VMX0967	CUT WASHER	2	
122(2)	VML1859	CHANGE LEVER	1	
123(2)	VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)	VMB1557	RELEASE SPRING	1	
125(2)	VML1860	RELEASE LEVER	1	
127(2)	VXP1002	TAKE UP REEL GEAR UNIT	1	
128(2)	VDG0445	SUPPLY REEL GEAR	1	
129(2)	VML1858	RETURN LEVER (R)	1	
130(2)	VML1857	RETURN LEVER (L)	1	
131(2)	VMD0913	STOPPER BASE	1	
132(2)	VDV0169	TIMING BELT	1	
133(2)	VXP1113	ROTOR UNIT	1	
134(2)	VMA7941	ROTOR STOPPER	1	
135(2)	VEK4105	STATOR UNIT	1	<!>
136(2)	VMA6847	SUB PLATE	1	
137(2)	VXF0917	CENTRE PULLEY UNIT	1	
138(2)	VDG0564	LOADING GEAR (T)	1	
139(2)	VMB1555	LOADING SPRING (T)	1	
140(2)	VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)	VXA3515	SECTOR GEAR UNIT	1	
142(2)	VDG0448	LOADING CAM GEAR	1	
143(2)	VDG0419	LOADING GEAR (S)	1	
144(2)	VML1855	PLAY CONTROL ARM	1	
145(2)	VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)	VDG0546	INTERMEDIATE GEAR	1	
147(2)	VXL1861	PLAY ARM UNIT	1	
148(2)	VBK0048	FG HEAD	1	
149(2)	VMB1746	LOADING SPRING(S)	1	
161(2)	VHD0431	STATOR SPACER SCREW	1	
162(2)	VHN0102	STATOR NUT	1	
201(3)	VMA7223	TOP PLATE	1	
202(3)	VXA3832	CASSETTE HOLDER UNIT	1	
216(3)	VXA2676	SIDE PLATE (L) UNIT	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA3895	SIDE PLATE (R) UNIT	1	
221(3)		VXA4642	SLIDE SW UNIT	1	
229(3)		VXP0987	MAIN SHAFT UNIT	1	
230(3)		VMB1836	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM (L)	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1837	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF1471	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VGM0624	TOP PANEL	1	
301(4)		VHD0304	TOP PANEL SCREW	2	
302(4)		VKU0245	BOTTOM PLATE	1	
303(4)		VYP3189	FRONT PANEL UNIT	1	
305(4)		VYF1503	FRONT DOOR UNIT	1	
307(4)		VGQ0550	DOOR LOCK PIECE	2	
308(4)		VEJ0989	ANT. TERMINAL PLATE	1	
311(4)		VHD0059	BOTTOM PLATE SCREW	4	
313(4)		VXA3635	POWER SHIELD CASE(MAIN)UNIT	1	
314(4)		VSC2351	POWER SHIELD COVER (TOP)	1	
315(4)		VGH1476	NAME PLATE	1	
316(4)		VGQ1377	IC. HOLDER	1	
317(4)		VMZ1224	INSULATION SHEET	1	
318(4)		VMZ1140	SW BARRIER(A)	1	
319(4)		VSC2237	POWER SHIELD COVER(BOTTOM)	1	
321(4)		VKA0084	RUBBER FOOT	2	
322(4)		VMP1994	TOP HOLDER ANGLE (RR)	1	
323(4)		VMP1995	TOP HOLDER ANGLE (RL)	1	
326(4)		VMA7949	EARTH ANGLE	1	
327(4)		VKC0327	TIMER HINGE (A)	1	
329(4)		VMC0460	EARTH SPRING	1	
330(4)		VJF0707	MAIN C.B.A. HOLDER	1	
331(4)		VHD0141	MAIN SCREW	1	
400(5)		VQT3674	OPERATING INSTRUCTIONS	1	
			(ENGLISH/GERMAN/RUSSIAN)		(!)
400(5)		VQT3675	OPERATING INSTRUCTIONS	1	
			(POLISH)		(!)
401(5)		VPK0825	ACCESSORIES BOX	1	
402(5)		VEQ1143	REMOTE CONTROL UNIT	1	
			(BUILD IN DIGITAL SCANNER)		
403(5)		VJA0449	AC POWER CORD	1	(!)
404(5)		VJA0376	DIN RF CABLE	1	
405(5)		VQC1316	PROGRAMME SHEET	1	
406(5)		VPN2356	CUSHION (R)	1	
407(5)		VPN2357	CUSHION (L)	1	
408(5)		VPG5394	PACKING	1	
450(6)		VKF1445	SLIDING LID	1	
451(6)		VYK3150	TOP COVER UNIT	1	
452(6)		VGQ1640	SENSOR CAP	1	
453(6)		VSP0507	RUBBER CONTACT (A)	1	
454(6)		VSL0200	LCD	1	
455(6)		VSP0508	RUBBER CONTACT (B)	1	
457(6)		VKW0878	IR WINDOW	1	
458(6)		VMT0297	BASE RUBBER(LCD)	2	
459(6)		VKM2169	BOTTOM COVER	1	
460(6)		VJR0585	ELECTRODE(+)	1	
461(6)		VJR0498	ELECTRODE(COM.)	1	
462(6)		VJR0584	ELECTRODE(-)	1	
463(6)		VKF1455	BATTERY COVER	1	
			SERVICING FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE	1	
		VFK0335	RETAINING RING REMOVER	1	(3mm/4mm)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK0367	TENSION POST ADJUSTMENT PLATE	1	
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJUSTMENT SCREWDRIVER	1	
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS(uf), P=uuF.
4. The P.C.Board units marked width'■'show below the main assembled parts.
5. Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-J30EE			
		VEP03764H	MAIN C.B.A.	1	
					<!> (NLA)
					INCLUDING THE
					SUB MAIN C.B.A.
					(VEP03765F),
					SECAM PACK C.B.A.
					(VEP03452F),
					INPUT/OUTPUT C.B.A.
					(VEP03593B),
					CYLINDER DRIVE C.B.A.
					(VEP02329A),
					OSC C.B.A.
					(VEP06583B),
					MULTI DECODER C.B.A.
					(VEP07554A),
					TV DEMODULATOR C.B.A.
					(VEP07592J).
		VEP03765F	SUB MAIN C.B.A.	1	
					(NLA)
					INCLUDING THE
					SECAM PACK C.B.A.
					(VEP03542F).
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP03452F	SECAM PACK C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP03593B	INPUT/OUTPUT C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP02329A	CYLINDER DRIVE C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP06583B	OSC C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP07554A	MULTI DECODER C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).
		VEP07592J	TV DEMODULATOR C.B.A.	1	
					(NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03764H).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP05137B	HEAD AMP C.B.A.	1	
					(NLA)
		VEP07597F	TIMER C.B.A.	1	
					(NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06500G).
		VEP06500G	IR RECEIVER C.B.A.	1	
					(NLA)
					INCLUDED IN TIMER
					C.B.A.(VEP07597F).
		VEP06680D	OPERATION C.B.A.	1	
					(NLA)
		VEP01420AD	POWER C.B.A.	1	
					<!> (NLA)
		VEP66125D	REMOTE CONTROL UNIT C.B.A.	1	
					(NLA)
		VXA3820	MECHANISM CONNECTION C.B.A.	1	
					(NLA)
		VEK3578	SUPPLY PHOTO Tr. C.B.A.	1	
					(NLA)
			TAKE-UP PHOTO Tr. C.B.A.	1	
		ENC17969	RF CONVERTER	1	<!>
		ENV59827H3	TUNER	1	<!>
	■	VEP03764H	MAIN C.B.A.		
					<!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C321	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332	ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333	ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C340	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C352	ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C353	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C354	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C360	ECUM1H153ZFN	C.CAPACITOR CH 50V 0.015U	1	
C701	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C703	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C706	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C708	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C709	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C710	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721	ECEA1HKR27	E.CAPACITOR 50V 0.27U	1	
C722	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732	ECQV1H224BO	P.CAPACITOR 50V 0.22U	1	
C734	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736	ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742	ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743	ECUM1H270JSN	C.CAPACITOR CH 50V 27P	1	
C744	ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745	ECUM1H680JFN	C.CAPACITOR CH 50V 68P	1	
C746	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748,49	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C760	ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C771	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C772	ECUM1H820JRN	C.CAPACITOR CH 50V 82P	1	
C773,74	ECQB1H103JH	P.CAPACITOR 50V 0.01U	2	
C775	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C776	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C777	ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C778	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C779	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C780	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C781	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C783	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C784	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C785,86	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C789	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C790	ECUM1H560JPN	C.CAPACITOR CH 50V 56P	1	
C791	ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C792	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C794	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C795,96	ECEA1CK100	E.CAPACITOR 16V 10U	2	
C797-99	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814	ECEA1AK101	E.CAPACITOR 10V 100U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C815	ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817	ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818	ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821	ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826	ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827	ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C828	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829	ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C830	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C831,32	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C833	ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C839	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C840	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C841-49	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	9	
C851	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C852	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C853	ECEA10Z47	E.CAPACITOR 10V 47U	1	
C854	ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C856	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C858	ECKF1H681KB	C.CAPACITOR 50V 680P	1	
C859	ECCF1H470JC	C.CAPACITOR 50V 47P	1	
C1001	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C1003	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C1004	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2001	ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2002	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2003	ECQB1H472JZ	P.CAPACITOR 50V 4700P	1	
C2004	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2005	ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2006	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2007	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2008	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2009	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2010	ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2011	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2012	VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2013	ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2014	ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2015	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2016	ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C2017	ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2018	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2019	ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2020	VCYD1E473KR	S.CAPACITOR 25V 0.047U	1	
C2022	ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2024	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2025	ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2026	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C2027	ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2028	ECQB1H333JZ	P.CAPACITOR 50V 0.033U	1	
C2029	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2030	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2031	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2033	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2034	ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2050	ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2101-03	ECQB1H333JZ	P.CAPACITOR 50V 0.033U	3	
C2104-06	ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2107,08	VCYD1E333KR	S.CAPACITOR 25V 0.033U	2	
C2111	ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2115	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2116	ECEA1EU221	E.CAPACITOR 25V 220U	1	
C2118	VCYD1E333KR	S.CAPACITOR 25V 0.033U	1	
C2121	ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C2201	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2203	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2204-06	ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2207	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2208-10	ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2211	ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2212	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2213	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002	ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3010	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3012	ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C3013	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3015	VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C3016	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3053	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3064	ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C3067,68	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3076	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3081	ECEA1CK220	E.CAPACITOR 16V 22U	1	
C3101	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3102	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3103,04	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3105	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3808	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3809	ECQB1H332JZ	P.CAPACITOR 50V 0.27U	1	
C3810	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3811	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3812	ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C3813	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3814	ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3815,16	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3817	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3818,19	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3820	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3821	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3822	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C4001	ECQB1H153JZ	P.CAPACITOR 50V 0.015U	1	
C4002	ECEA16M33	E.CAPACITOR 16V 33U	1	
C4003	ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004	ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005	ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006	ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009	ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4012	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013	ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4014	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4015	ECEA16M10R	E.CAPACITOR 16V 10.U	1	
C4016	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017	ECEA1CM47	E.CAPACITOR 10V 47U	1	
C4018	ECQB1H822JZ	P.CAPACITOR 50V 8200P	1	
C4019	ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4020	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021	ECEA1AK101	E.CAPACITOR 10V 100U	1	
C4022	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4026	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4029	ECQB1H123JZ	P.CAPACITOR 50V 0.012U	1	
C4033	ECQB1H102JZ	F.CAPACITOR 50V 1000P	1	
C6001,02	ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C6005	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6006	ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007	VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6008	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6010	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C6011,12	ECUM1HZ71JCN	C.CAPACITOR CH 50V 270P	2	
C6013	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6014	ECEA1CK220	E.CAPACITOR 16V 22U	1	
C6015	ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6023	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C6025	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6101	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6102	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6103	ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6104	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C6105	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6106	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C7401	ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7402	EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7408	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7409	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7410	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7421	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7422	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C7651	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653	ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C7654	ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655,56	ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7657	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7658	ECQP1562JZ	P.CAPACITOR 100V 5600P	1	
C7659	ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7661	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7662	ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7663	ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7664	ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667	ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670,71	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7673	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7678	ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7680	ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7681	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D301	MA4091M	DIODE	1	
D710	MA3100L	DIODE	1	
D713,14	MA151K	DIODE	2	
D715	MA3091	DIODE	1	
D716	MA28WA	DIODE	1	
D771	MA151WK	DIODE	1	
D772	MA165	DIODE	1	
D773	MA151K	DIODE	1	
D1001,02	MA165	DIODE	2	
D2003,04	MA165	DIODE	2	
D2007,08	MA165	DIODE	2	
D2403	MA165	DIODE	1	
DZ2405,06	MA165	DIODE	2	
D3001	MA165	DIODE	1	
D3009	MA165	DIODE	1	
D3101	MA165	DIODE	1	
D3102	MA29WA	DIODE	1	
D4003	MA165	DIODE	1	
D6001	MA4051	DIODE	1	
D6002-04	MA165	DIODE	3	
D6005	ERA15-01	DIODE	1	
D6006,07	MA165	DIODE	2	
D6008	MA723	DIODE	1	
D6009	MA4150L	DIODE	1	
D6023	MA165	DIODE	1	
D7401,02	MA723	DIODE	2	
D7601	MA151A	DIODE	1	
D7602	MA3082M	DIODE	1	
DL803	EFDWF124A13A	DELAY	1	
F6001	VSF0077	FUSE	1	<!>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL301	ELB4M022	FILTER	1	
FL302	VLF0499	FILTER	1	
FL303	VLF0727	FILTER	1	
FL801	ELB4W002	FILTER	1	
FL851	VLF0143	FILTER	1	
FL3101	VLF0413	FILTER	1	
IC301	VEFH03D	HIC	1	
IC303	MSM6965-3RS	IC	1	
IC701	M51366SP	IC	1	
IC702	UPC1167C2	IC	1	
IC703	UPD4066BC	IC	1	
IC801	VEFH04F	HIC	1	
IC802	M52055P	IC	1	
IC851	BA7025L	IC	1	
IC2001	MN6740VCTK	IC	1	
IC2101	BA6435S	IC	1	
IC2201	AN3814K	IC	1	
IC3101	BA7004	IC	1	
IC3801	M52063SP	IC	1	
IC4001	BA7766AS	IC	1	
IC6002	LM393PS	IC	1	
IC6003	MN12821R	IC	1	
IC7651	AN5421N	IC	1	
IC7652	AN5043	IC	1	
IC7653	MN4066BS	IC	1	
KR851	VJR0163	PACK PIN	1	
L301	VLQEL05F101K	COIL 100UH	1	
L302	VLQEL05F220K	COIL 22UH	1	
L303,04	VLQEL05F101K	COIL 100UH	2	
L306	VLQEL05F101K	COIL 100UH	1	
L307	VLQEL05F151K	COIL 150UH	1	
L308	VLQEL05F270K	COIL 27UH	1	
L309,10	VLQEL05F101K	COIL 100UH	2	
L311	VLQEL05F2R2K	COIL 2.2UH	1	
L701,02	ELESP680KA	COIL 68UH	2	
L711	ELQT1R2KB	COIL 1.2UH	1	
L713	VLQ0305JR56	COIL 0.56UH	1	
L714	VLQ0305J1R2	COIL 1.2UH	1	
L715	VLQ0213K680	COIL 68UH	1	
L717,18	ELESP680KA	COIL 68UH	2	
L719	ELESP5R6KA	COIL 5.6UH	1	
L757	ELESP820KA	COIL 82UH	1	
L781	ELESP680KA	COIL 68UH	1	
L805	VLQEL05F101K	COIL 100UH	1	
L806	VLQEL05F681K	COIL 680UH	1	
L808	VLQEL05F470K	COIL 47UH	1	
L809	VLQEL05F331K	COIL 330UH	1	
L810	VLQEL05F101K	COIL 100UH	1	
L811	VLQEL05F470K	COIL 47UH	1	
L812	VLQEL05F681K	COIL 680UH	1	
L820	VLQEL05F101K	COIL 100UH	1	
L821	VLQEL05F150K	COIL 15UH	1	
L822	VLQ0213K150	COIL 15H	1	
L851	VLQEL05F101K	COIL 100UH	1	
L2002	VLP0074	COIL	1	
L2003	ELESP101KA	COIL 100UH	1	
L2101	ELESP102KA	COIL 1000UH	1	
L3001-03	ELESP101KA	COIL 100UH	3	
L3005	ELESP120KA	COIL 12UH	1	
L3006	ELESP6R8KA	COIL 6.8UH	1	
L3007	ELESP101KA	COIL 100UH	1	
L3008	ELESP3R3KA	COIL 3.3UH	1	
L3101	VLQEL05F101K	COIL 100UH	1	
L3805	VLQEL05F101K	COIL 100UH	1	
L4001	VLQEL07F822J	COIL 8200UH	1	
L4002	ELESP471KA	COIL 470UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L6101	VLQEL05F101K	COIL 100UH	1	
L7401	ELESP1R0KA	COIL 1UH	1	
L7402	ELESP101KA	COIL 100UH	1	
L7404	ELESP1R0KA	COIL 1UH	1	
P001	VJS1237T	CONNECTOR (FEMALE)	1	
P006	VJS1902	CONNECTOR (FEMALE)	1	
P501	VJS1743T	CONNECTOR (FEMALE)	1	
P1001	VJS2571A013	CONNECTOR (FEMALE)	1	
P2001	VJP1932T	CONNECTOR (MALE)	1	
P2001	VJS1932T	CONNECTOR (FEMALE)	1	
P2201	VJP1237T	CONNECTOR (MALE) 10P	1	
P2201	VJS1237T	CONNECTOR (FEMALE)	1	
P3001	VJP1237T	CONNECTOR (MALE) 10P	1	
P3001	VJS1743T	CONNECTOR (FEMALE)	1	
P4001	VJP2622	CONNECTOR	1	
P6001	VJS2571A012	CONNECTOR (FEMALE)	1	
P6002	VJS2571A004	CONNECTOR (FEMALE)	1	
P7401	VJS1662	CONNECTOR (FEMALE)	1	
P7402	VJS2571A015	CONNECTOR (FEMALE)	1	
PK701	VJR0231	PACK PIN	1	
PK702,03	VJR0406	PACK PIN	2	
PK704	VJR0231	PACK PIN	1	
PK2201	VJR0452	PACK PIN	1	
PK2202	VJR0348	PACK PIN	1	
PK3901	VJR0348	PACK PIN	1	
PK3902	VJR0523	PACK PIN	1	
PK3903	VJR0348	PACK PIN	1	
PK3904	VJR0416	PACK PIN	1	
PK6101	VJR0277	PACK PIN	1	
Q301	MSB709	TRANSISTOR	1	(Q,R,S)
Q302	MSC2295	TRANSISTOR	1	(B,C)
Q303	MSC2295	TRANSISTOR	1	(B,C)
Q304	MSD601	TRANSISTOR	1	(Q,R,S)
Q703	2SD601	TRANSISTOR	1	(S,T)
Q710	2SC1047	TRANSISTOR	1	
Q712	2SD638	TRANSISTOR	1	
Q713	2SD1328	TRANSISTOR CHIP	1	(S,T)
Q715,16	2SD601	TRANSISTOR CHIP	2	(S,T)
Q722	2SD1328	TRANSISTOR CHIP	1	(S,T)
Q771	2SD601	TRANSISTOR	1	(S,T)
Q772	2SD601	TRANSISTOR CHIP	1	(S,T)
Q804	MSB709	TRANSISTOR	1	(Q,R,S)
Q2001	MSD601	TRANSISTOR	1	(Q,R,S)
Q2002	2SD1996	TRANSISTOR	1	(S)
Q2003	MSB709	TRANSISTOR	1	
Q3001	MSC2295	TRANSISTOR	1	
Q3003	MSD601	TRANSISTOR	1	
Q3004	MSB709	TRANSISTOR	1	(Q,R,S)
Q3006	MSC2295	TRANSISTOR	1	
Q3007	MSB709	TRANSISTOR	1	(Q,R,S)
Q3101	MSD601	TRANSISTOR	1	
Q4001	MSD602	TRANSISTOR	1	(R)
Q6001	2SD893	TRANSISTOR	1	
Q6002,03	2SD1994	TRANSISTOR	2	(S)
Q6004	2SD1992	TRANSISTOR	1	
Q6006	2SB1321	TRANSISTOR	1	
Q6007	MSB710	TRANSISTOR	1	(R,S)
Q6008	2SD1273	TRANSISTOR	1	(P,O)
Q6010	2SD1991A	TRANSISTOR	1	
Q6011	MSB709	TRANSISTOR	1	
Q6101	2SC2206	TRANSISTOR	1	(B,C)
QR304	MRN1403	TRANSISTOR-RESISTOR	1	
QR701	MRN1404	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR702	MRN1404	TRANSISTOR-RESISTOR	1	
QR711,12	MRN1403	TRANSISTOR-RESISTOR	2	
QR713	MRN1402	TRANSISTOR-RESISTOR	1	
QR717	UN2211	TRANSISTOR-RESISTOR	1	
QR720,21	UN2211	TRANSISTOR-RESISTOR	2	
QR853	UN1213	TRANSISTOR-RESISTOR	1	
QR1001	MRN1404	TRANSISTOR-RESISTOR	1	
QR2002	DTC363EK	TRANSISTOR-RESISTOR	1	
QR2004	2SD1676	TRANSISTOR-RESISTOR	1	
QR2005	MRN1404	TRANSISTOR-RESISTOR	1	
QR2402,03	MRN2403	TRANSISTOR-RESISTOR	2	
QR3004	MRN2402	TRANSISTOR-RESISTOR	1	
QR3008	MRN1404	TRANSISTOR-RESISTOR	1	
QR3601	MRN2404	TRANSISTOR-RESISTOR	1	
QR3802	MRN1404	TRANSISTOR-RESISTOR	1	
QR4001	MRN1404	TRANSISTOR-RESISTOR	1	
QR6002	UN2119	TRANSISTOR-RESISTOR	1	
QR6003	MRN2404	TRANSISTOR-RESISTOR	1	
QR6004	MRN1404	TRANSISTOR-RESISTOR	1	
QR6007	MRN1403	TRANSISTOR-RESISTOR	1	
QR6011,12	MRN1403	TRANSISTOR-RESISTOR	2	
QR6013	MRN2404	TRANSISTOR-RESISTOR	1	
QR7401	MRN1402	TRANSISTOR-RESISTOR	1	
QR7601	MRN1404	TRANSISTOR-RESISTOR	1	
		RESISTORS		
R301	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R302	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R303	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R304	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R306	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R307	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R308	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R309	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R310	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R311	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R312	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R317	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R320	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R325	ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R326	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R327	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R328	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R329	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R330	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R331	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R332	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R334,35	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R338	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R339	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R712	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R713	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R714	ERDZFCG330	C.RESISTOR 2W 33	1	<1>
R715	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R716	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R717	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718	ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R720	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R721	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R722	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R723	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R724	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R729,30	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
R737	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R739	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R740	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R743	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745	ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R746	ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R750	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R751	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R756	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R757,58	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R763	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R771	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R772	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R774	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R775	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R776	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R777	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R778	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R779	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R780	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R781	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R783	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R784	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R785	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R787,88	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R789	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R790	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R791	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R792	ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R792	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R793	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R794	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R795	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R795,96	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	2	
R797	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R799	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R815	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R818	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R819	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R820	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R821	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R822	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R824	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R825	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R831	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R841-43	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	3	
R844,45	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R846,47	ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R851	ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R852	ERDS2TJ390	C.RESISTOR 1/4W 39	1	
R853	ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R854	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R855	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R856	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R858	ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2001,02	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2004,05	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2006	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R2007	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2008	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2009	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2010	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2011	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2012	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2013	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2014	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2015,16	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2017	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2018	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R2019	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1	
R2020	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R2021	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	

MC-Service

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2022	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2023	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2024	ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2025	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R2026	ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2027	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2028	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2029	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2030	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R2031	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2032	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2034	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R2035,36	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2037	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R2051	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2101-03	ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2104	ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2105	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2106	ERJ6GMYG561	M.RESISTOR CH 1/10W 560	1	
R2107	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R2108	ERJ6GMYG472	M.RESISTOR CH 1/10W 4.7K	1	
R2109	ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R2201	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2202-04	ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2205	ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2402	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R2403	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2405	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3001	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3002	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3003	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3019	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23	ERJ6GMYJ621	M.RESISTOR CH 1/10W 620	2	
R3028	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3029	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3030	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3042	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3062	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3063	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3071	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R3085	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R3086	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3087,88	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	2	
R3094	ERJ6GMY0R00	M.RESISTOR CH 1/10W 0	1	
R3095	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3096	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3101	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3102	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3103	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3104	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3812	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3813	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3814	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3815	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3816	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3817	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3818	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3819	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3820	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3821	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3822,23	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3902-05	ERDS2TJ750	C.RESISTOR 1/4W 75	4	
R3908	ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R4001	ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R4002	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4003	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4004	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4007	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R4008	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4010	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4012	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4013	ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4014	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R4015	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4016	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017	ERJ6GMYJ302	M.RESISTOR CH 1/10W 3K	1	
R4018	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4020	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024.25	ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4028	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R4032	ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R4035	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4038	ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R4042	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4044	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4049	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4050	ERJ6GEY683	M.RESISTOR CH 1/10W 68K	1	
R4901	ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R4902	ERDS2TJ273	C.RESISTOR 1/4W 27K	1	
R6001-03	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	3	
R6004,05	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6006	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6007	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6008	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6009	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6010	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6011	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6012	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6013	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6014	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6015	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6017	ERJ6GMYJZZ1	M.RESISTOR CH 1/10W ZZ0	1	
R6018	ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6019	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6020	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6021	ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6022	ERG3SJ220	M.RESISTOR 3W 22	1	
R6023	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6024	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6025	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R6026	ERD2FCVG220	C.RESISTOR 2W 22	1	<!>
R6028	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6029	ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6030	ERJ6GMYJ751	M.RESISTOR CH 1/10W 750	1	
R6031	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6032	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6033	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R6034	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R6036	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6039	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6040	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6041	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6042.43	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6044.45	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6047	ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6048	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R6049	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6053	ERG2SJ471	M.RESISTOR 2W 470	1	
R6054	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6055	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6056	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6057	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6059	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6060	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6101	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6103.04	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7401	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7402	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7651	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7654	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7655	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7656		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R7657		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7658		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7659		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7661		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7662		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7663		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7664		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7671,72		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R7675		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7680		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7681,82		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7691		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7692		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7694		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
SW3901		VSS0225	SWITCH	1	
T703		EIV5EC021A	TRANSFORMER	1	
T704		EIV5EC020A	TRANSFORMER	1	
T711		EIS5EC003A	TRANSFORMER	1	
T712		EIS5EC011A	TRANSFORMER	1	
T713		EIS5EC005A	TRANSFORMER	1	
T851		ELM7Q207A	COIL	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
VR302		EVN4YCA00B23	V.RESISTOR 2K	1	
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR752,53		EVNDRAA00B14	V.RESISTOR 10K	2	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2009,10		EVND1AA00B25	V.RESISTOR 200K	2	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR3801		EVN4YCA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
VR7660		EVN38CA00B23	V.RESISTOR 2K	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP32	CRYSTAL OSCILLATOR	1	
X711		EFCS5M65MW3B	CRYSTAL OSCILLATOR	1	
X712		EFCS6R5MS5	FILTER	1	
X722		EFCS5R5MS5	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3101		VSX0099	CRYSTAL OSCILLATOR	1	
X6101		VSX0383	CRYSTAL OSCILLATOR	1	
X7401		VSQ0565	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMC0075	HEAT SINK FIX SPRING	1	
		VSC2734	HEAT SINK	1	
		VMP2631	FUSE FIX ANGLE	1	
		VSC1068	HEAT SINK	1	
		VMA6768	EARTH ANGLE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		ENC17969	RF CONVERTER	1	<!>
		VEJ0989	ANT. TERMINAL PLATE	1	
		VMZ1352	HEAT SINK COVER	1	
		VJF0379	CLAMP	1	
		VJF0858	CLAMP	1	
		VMC0462	EARTH SPRING	1	
		ENV59827H3	TUNER	1	<!> [FOR TV DEMODU.]
		VSC2713	SHIELD (MAIN)	1	[FOR TV DEMODU.]
		VSC2712	SHIELD (TOP)	1	[FOR TV DEMODU.]
		VSC2714	SHIELD (BOTTOM)	1	[FOR TV DEMODU.]
		VEJ0782	REAR JACK	1	
		VWJ14HW140MM	FLEXIBLE CABLE(14PIN)	1	(P7401 - P7501)
		VWJ0374	FLEXIBLE CABLE(15PIN)	1	(P7402 - P7502)
		VJR0189	PACK PIN(10PIN)	1	[FOR MULTI DECODER]
	■	VEP05137B	HEAD AMP C.B.A.		
					(NLA)
			CAPACITORS		
C501		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C502		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C505		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C507		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C508		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C510,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C512		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C513		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C514		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C515		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C516		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C518		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C523		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C524		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C525		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C528		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C529		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C530		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C531		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C532		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C533		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C534		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C538		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C539		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C540		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C541		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C542		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
IC501		BA7274S	IC	1	
L501		VLQEL05F101K	COIL 100UH	1	
L503		VLQEL05F270K	COIL 27UH	1	
L504		VLQEL05F101K	COIL 100UH	1	
L505		VLQEL05F820K	COIL 82UH	1	
L506		VLQEL05F151K	COIL 150UH	1	
P002		VJS1449	CONNECTOR(FEMALE)	1	
P501		VJP1237T	CONNECTOR(MALE) 10P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q502		2SC2295	TRANSISTOR	1	
			RESISTORS		
R501		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R503		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R504		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R507		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R508		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R509		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R510		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R512		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R513		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R516		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	
R519		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R523		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R524		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R525		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R526		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R527		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R528		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R532		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R533		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R534-36		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	3	
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B13	V.RESISTOR 1K	1	
			MISCELLANEOUS		
		VSC2353	SHIELD (TOP)	1	
		VSC2355	SHIELD (BOTTOM)	1	
		VSC2354	SHIELD (MAIN)	1	
	■	VEP07597F	TIMER C.B.A.		
					(NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H471KB	C.CAPACITOR 50V 470P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7504		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7505		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7507		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7508		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7511		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7513		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7525		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7551		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6701		PN323B	PHOTO DIODE	1	
D7501		MA4068	DIODE	1	
D7502		MA165	DIODE	1	
D7507		MA165	DIODE	1	
D7513		MA165	DIODE	1	
D7516		MA165	DIODE	1	
D7530		MA165	DIODE	1	
D7532-35		MA165	DIODE	4	
D7537-41		MA165	DIODE	5	
D7556		LN38GCPL	DIODE	1	
DP7501		VSLO164	DISPLAY TUBE	1	
IC7501		MN187125VHP	IC	1	
IC7502		MN12C261D	IC	1	
IC7503		MN1280L	IC	1	
IC7504		MN1280S	IC	1	
IC7601		UPC1490HA	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	
P7501		VJS1492	CONNECTOR(FEMALE)	1	
P7502		VJS2651B015	CONNECTOR (FEMALE)	1	
P7505		VJS2652	CONNECTOR	1	
QR7501		MRN1404	TRANSISTOR-RESISTOR	1	
QR7525		UN2216	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R6703		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7501		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7503		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7504		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7505		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7508-10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R7511		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7512		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7523-27		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	5	
R7530-32		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7533		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7534		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7535		ERDS1TJ5R1	C.RESISTOR 1/2W 5.1	1	
R7538		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7546		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7549		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7550		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7552-54		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	3	
R7555		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7563		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
SW7504		EVQ11407K	SWITCH	1	
SW7517		EVQ11407K	SWITCH	1	
SW7527		EVQ11407K	SWITCH	1	
SW7532-46		EVQ11407K	SWITCH	15	

MC-Service

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0843	LED HOLDER	1	
		VJF0706	FIP HOLDER	1	
		VSC2059	SHIELD (MAIN)	1	(FOR IR RECEIVER)
		VSC1928	SHIELD (BOTTOM)	1	(FOR IR RECEIVER)
	■	VEP06680D	OPERATION C.B.A.		
					(NLA)
D6203		LN28RCPPU	DIODE	1	
D6204		MA165	DIODE	1	
P6201		VJP2652	CONNECTOR	1	
			RESISTORS		
R6201		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R6202		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
SW6201-07		EVQ11407K	SWITCH	7	
SW6211,12		VSS0187	SWITCH	2	
SW6213		VSS0236	SWITCH	1	
VR3004		EWAKFKXB3B24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
		VGU4537	SWITCH KNOB	3	
		VMD0504	LED HOLDER	1	
	■	VEP01420AD	POWER C.B.A.		
					<!> (NLA)
			CAPACITORS		
C1101		ECQU2A154MN	P.CAPACITOR 100V 0.15U	1	<!>
C1102		ECQU2A683MN	P.CAPACITOR 250V 0.068U	1	<!>
C1108		ECOS2GU8Z0	C.CAPACITOR 400V 8ZP	1	
C1109		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1110		ECQE6473JZ	P.CAPACITOR 630V 0.047U	1	
C1111		ECKD3D331KB	C.CAPACITOR 2KV 330P	1	
C1113		ECQB1H472KZ	P.CAPACITOR 50V 4700P	1	
C1114		ECA1CXLV470	.CAPACITOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1115		ECQB1H472KZ	P.CAPACITOR 50V 4700P	1	
C1117		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1118		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1119,20		ECEA1DFZ681	E.CAPACITOR 20V 680U	2	
C1121		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1122		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1123		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1124,25		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1126		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1127		ECEA0JF2471	E.CAPACITOR 6.3V 470U	1	
C1128-31		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	4	
C1132		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1134,35		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	
C1136		ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
C1137		ECQV1H223JS	P.CAPACITOR 50V 0.022U	1	
C1142		VCC0021	CAPACITOR	1	<!>
C1145		VCC0021	CAPACITOR	1	<!>
C1147		VCC0022	C.CAPACITOR 1000P	1	<!>
D1101		SNR-300K4	SURGE ABSORBER	1	<!>
D1102		S1WBA60	DIODE	1	<!>
D1103		VSD0002	DIODE	1	<!>
D1104		AP01C	DIODE	1	
D1105		MA178	DIODE	1	
D1106		MA4039	DIODE	1	
D1107		MA165	DIODE	1	
D1108		ERA22-02	DIODE	1	
D1109		RL2ZP	DIODE	1	
D1110		MA185	DIODE	1	
D1111		11EQS04	DIODE	1	
D1112		ERB83-004	DIODE	1	
D1113		MA2200B	DIODE	1	
D1114		MA4130L	DIODE	1	
IC1101		STRD1816	IC	1	<!>
IC1102		STK5392	IC	1	
L1102		ELF18D221F	COIL	1	<!>
L1103		VLQ0335	COIL	1	
L1108,09		VLP0085	FILTER	2	
P1101		VJS2651B013W	CONNECTOR (FEMALE)	1	
P1102		VJS2625	CONNECTOR (FEMALE)	1	<!>
Q1102		2SD1330	TRANSISTOR	1	
			RESISTORS		
R1101		ERC1ZAGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102,03		ERDS1TJ823	C.RESISTOR 1/2W 82K	2	
R1104		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1106		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1108		ERD25VJ182	C.RESISTOR 1/4W 1.8K	1	<!>
R1110		ERG2SJ330	M.RESISTOR 2W 33	1	
R1111		ERG2SJ181	M.RESISTOR 2W 180	1	
R1113		ERG1SJ182	M.RESISTOR 1W 1.8K	1	
R1114		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1118		ERDS2TJ1R0	C.RESISTOR 1/4W 1.0	1	
R1123,24		ERDSZTJ153	C.RESISTOR 1/4W 15K	2	
R1125		ERW1PK2R2	WIRE WOUND 2W 2.2	1	
T1101		VLT0571	TRANSFORMER	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	<!>
		VMZ1183	CAPACITOR COVER	1	<!>
		VMZ1608	CAPACITOR COVER	1	<!> [FOR C1147]
	■	VEP66125D	REMOTE CONTROL UNIT C.B.A.		
					(NLA)
			CAPACITORS		
C6801		ECEA1AKA47O	E.CAPACITOR 10V 47U	1	
C6802		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	1	
C6803		ECEV1CAN4R7	E.CAPACITOR 16V 4.7U	1	
C6804		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6808,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6810		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	1	
C6811		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6812		ECUM1E154ZFM	C.CAPACITOR CH 25V 0.15U	1	
D6801		SE303ACYTF	DIODE	1	
D6803-12		MAZ21	DIODE	10	
D6817,18		MA221	DIODE	2	
IC6801		MN158455VSSD	IC	1	
IC6802		AN8356S	IC	1	
L6801		ELT3K017B	COIL	1	
Q6801		2SD1328	TRANSISTOR CHIP	1	(R,S)
Q6802		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q6803		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
QR6803		DTC144TK	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R6802,03		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	2	
R6804		ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R6805		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6806		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6807		ERJ8GCYJ1R2	M.RESISTOR CH 1/8W 1.2	1	
R6808		ERJ6GMYJ824	M.RESISTOR CH1/10W 820K	1	
R6810		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6812		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R6813		ERJ6GMYJ6R8	M.RESISTOR CH1/10W 6.8	1	
R6814,15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6816		ERJ6GMYJ334	M.RESISTOR CH 1/10W 330K	1	
R6817		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
SN6801		VSQ0567	SENSOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR6801		EVNDXAA00B34	V.RESISTOR 30K	1	
X6801		EFOGC3524A4	CRYSTAL OSCILLATOR	1	
X6802		EFBAL30D401K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VQQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
	■	VXA3820	MECHANISM CONNECTION C.B.A.		
					(NLA)
IC1501		ONZ170	IC	1	
R1501,02		ERJ8GCYJ223	CHIP 1/8W 22K	2	
P1504		VJS234ZW	CONNECTOR 13P	1	
P1505		VJP1242T	CONNECTOR 2P	1	
			MISCELLANEOUS		
		VMA7844	REINFORCEMENT PLATE(F)	1	
		VMA7845	REINFORCEMENT PLATE(R)	1	
		VMZ1366	PROTECTION SHEET	1	
	■	VEK3570	SUPPLY PHOTO Tr. C.B.A.		
					(NLA)
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
Q1501		PN150NVS	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TAKE-UP PHOTO Tr. C.B.A.		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
P1503		VJ32165W	CONNECTOR 6P	1	
Q1502		PN150NVS	TRANSISTOR	1	
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	